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JANUARY 13 1962



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ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and of the Pharmaceutical Society of Northern Ireland

Volume 177

January 13, 1962

No. 4274

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Volume 177

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"No Test Prescriptions" A PHARMACIST DEFIES THE MINISTRY

A LONE fight by Mr. C. Brunning, M.P.S., proprietor of the Castle Pharmacy, Caergwrle, Wrexham, Denbighs, against the Ministry of Health's drug testing scheme reached a critical stage on January 11, when he was due to appear before the local Pharmaceutical Committee

after refusing to co-operate on being handed a test prescription.

Mr. Brunning told the C. & D. that he had recently dispensed such a prescription but had declined to divide it for analysis. "I refused to admit I had any doubts about its quality," he added. Knowing full well that he had contravened his terms of service as a con-tractor under the National Health Service, Mr. Brunning wrote to the Ministry on November 8, 1961, stating why he had acted in such a way. He said it was an endorsement of his views expressed in an earlier letter to the Ministry in which he had expressed "profound disgust" that retail pharmacists were subjected to tests whereas doctors were not. In reply the Ministry denied any discrimination against phar-macists and stated that it was "immacists and stated that it was "impracticable" to organise a scheme to cover doctors as well. On December 22 the Denbighshire and Flintshire Executive Council decided to refer the matter to the Pharmaceutical Committee. According to the National Pharmaceutical Union, Mr. Brunning is in the unusual position of being the only pharmacist in Caergwrle among seven doctors, some of whom do their own dispensing. Five years ago the N.P.U. assisted him in settling a dispute with the Welsh Department of Health, after one of the doctors had been found to be dis-

Indigestion Survey

pensing prescriptions for patients living

within a mile of the pharmacy.

SYMPTOMS MAY BE SERIOUS

COUNTER sales of indigestion preparations at the six retail pharmacies in Newton-le-Willows, Lancs, are being recorded as part of a twelve-month inquiry into the prevalence of hyperacidity among the town's 22,000 population. The information has been requested by a local general practitioner. It will be passed at the end of the period to doctors at Manchester Infirmary investigating the proportion of persons who treat themselves for "indigestion" but who in fact might be suffering from peptic ulcers. On purchasing an antacid product a customer is issued with a numbered card by the chemist and asked to quote that number on the occasion of his next purchase. Each transaction for dyspepsia remedies is then noted by the chemist in a record book.

Disposable Needles

CONCERN OVER SOLVENTS

MANUFACTURERS of disposable hypodermic needles were criticised by a consultant pathologist in a letter to Lancet published on December 30, 1961, for failing to warn users that paraldehyde completely dissolves the needles' plastic hubs. The writer, Dr. R. J. Evans (director, Group Pathological Laboratory, St. Peter's Hospital, Chertsey, Surrey), pointed out that though "at least one manufacturer" included a warning notice with its dis-

posable syringes regarding paraldehyde, "little or no action has been taken so far to warn of the possible danger of using disposable needles for the injection of paraldehyde even if the syringe itself is made of glass." Maintaining that many patients must have received injections of paraldehyde contaminated with dissolved plastic, Dr. Evans questioned how much the patient could safely tolerate—"and what, if any, other substances commonly injected may attack the disposable syringe or needle in a similar way?" He considered such questions warranted urgent reply in view of the large-scale use of disposable needles.

History of Pharmacy

OLDEST SOCIETY PLANS ITS JUBILEE

THE French History of Pharmacy Society (Société d'Histoire de la Pharmacie), the oldest of the history-of pharmacy societies (it was founded in February 1913) has now been in existence for almost half a century, since M. E.-H. Guitard (the Society's perpetual secretary and editor of its Révue) suggested to Drs. Charles Buchet and Paul Dorveaux that the time was opportune for such a Society. At a recent meeting of members in Paris a committee was set up to deal



ACHIEVEMENT: After opening a new pharmacy department at Stobhill Hospital, Glasgow, on December 28, 1961, Sir Hugh Linstead (a secretary of the Pharmaceutical Society) seals a tube in a new closing and folding machine installed in the department.

with proposals to celebrate the jubilee, including the issue of special postage stamps commemorating Louis-Nicolas Vauquelin (1763 - 1829) and Moïse Charas (1619-98) is being recommended to the French Postmaster-General, and an exhibition (open to the public) relating to historical pharmacy, at the Faculté de Pharmacie of the University of Paris. In addition there is to be a display of postage stamps commemorating events in medicine and pharmacy, coinciding with the expected issue of the new pharmacy stamps. Special articles in the *Revue d'Histoire de la Pharmacie* during 1962 will refer to the forthcoming jubilee.

Electric Ovens

STANDARD PERFORMANCE SPECIFICATION

PREPARED under the authority of the Laboratory Apparatus Industry Standards Committee the recently published British Standard Specification for performance of electrically heated sterilising ovens (B.S. 3421:1961) specifies the performance but not the dimensions or other features of such ovens and is intended to meet the requirements of sterilising by hot air. It does not deal with sterilising temperatures or times, but it draws attention to the importance of adequate circulation of the heated air. A test load is specified because it is considered that tests on unloaded ovens would be unrepresentative. The standard specifies performance require-ments for electrically heated ovens capable of manual adjustment to any desired temperature within the range of 140° to 180° C. Ovens having a wider range are not excluded, provided that they comply with other standard requirements, at least within the above range. Among the special requirements laid down are: - Heating-up time: temperature over-shoot; temperature variation and temperature drift. The performance test is carried out using the largest number of open-topped glass jars, 12 cm. high and 6 cm. in diameter, that can be placed in the working space. Some of the jars are required to contain 100 mils of suitable hot stable non-volatile liquid. A thermocouple is immersed to the centre of the liquid in each of the jars and readings are noted during the tests. The standard contains a chart showing the example of the determination heating up time, temperature overshoot and temperature drift. Copies of the standard may be obtained from the British Standards Institution, 2 Park Street, London, W.1 (price 4s. each).

Labels Transposed

CONTRACTOR "FINED" FOR ERROR

THE Minister of Health has instructed the Essex Health Services Executive Council to withhold £20 from the remuneration of a contractor for dispensing medicincs with wrong labels to a father and his child. Because of the labelling mistakes, the child had a preparation prescribed for its father, who in turn had the mixture intended for the child. Announcing his decision, the Minister said he viewed with concern the lack of checking in dispensing an antibiotic drug which might have had serious consequences for the patient.

Factory Atmospheres

REVISED LIST OF CONCENTRATIONS

OWING to the number of changes made in the list of maximum permissible concentrations for toxic substances in factory atmospheres, pp. 7-12 inclusive of the Safety, Health and Welfare New Series Booklet No. 8 (H.M. Stationery Office, price one shilling) have been reprinted. The booklet was published some months ago (see C. & D., April 23, 1960, p. 459).

Retail Sales

BOARD OF TRADE STATISTICS

RECENTLY issued Board of Trade figures show that sales of chemists' goods by independent retailers were 7.3 per cent. lower in October 1961 than in September 1961 and 4.5 per cent. higher than in October 1960. Multiple retailers' sales were 5 per cent. lower in October 1961 compared with September 1961 and 5 per cent, higher than in October 1960. Sales by Co-operative societies were 0.8 per cent, lower than in September 1961 and 1.8 per cent.

higher than in October 1960. figures do not allow for receipts under the National Health Service.

Racehorse Doping

INVESTIGATIONS INTO DRUG ABUSES

PUBLICITY given recently by the Press and the British Broadcasting Corporation to the "scandalous" abuse of sedatives to influence the performance of racehorses and greyhounds has brought to light work being patiently carried out at the Equine Research Station, Newmarket, Suffolk, to determine the types of drugs used. So far, about ten compounds have been identified, the majority of them barbiturates. Police are investigating the possibility that they are being bought or otherwise acquired illegally, though it is considered likely that general practitioners might unwittingly be prescribing them on prescription. The principal non-scheduled drug identified by the ana-lysts has been chlorbutol. Ephedrine and caffeine are among the drugs reported to have been nefariously used to affect the performance of racing animals.

AGRICULTURAL CHEMICALS

Safe use recommendations

THE Ministry of Agriculture has issued recommendations for safe use in Great Britain of Barban (4-chlorobut-2-ynyl N (3-chlorophenyl) carbamate), a translocated herbicide. The advisory committee considers that Barban need not be included in the Agriculture (Poisonous Substances) Regulations. Although of low toxicity, the compound may cause skin irritation but its use should not present a hazard to operators provided they observe the following precautions which must appear on the

WEAR OVERALL or mackintosh (with sleeves

down).

WEAR RUBBER (or prefcrably PVC) GLOVES and FACE SHIELD when handling the concentrate (or adjusting or washing spraying equipment).

AVOID CONTACT WITH THE SKIN to prevent possible skin irritation.

WASH SPLASHES from skin or eyes immedi-

AVOID WORKING IN SPRAY MIST.

REMOVE heavily contaminated elothing immediately. Heavily contaminated clothing and gloves should be destroyed. Contaminated elothing must be laundered or dry-cleaned before re-use, Wash gloves (inside and out) after

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

The use of Barban on a non-edible crop is acceptable provided there is a minimum interval of six weeks between application and harvesting, the use of Barban as a post-emergence herbicide on wheat, barley, peas, beans, sugar beet and potatoes should not present a hazard to consumers. There is insufficient information to enable recommendations to be made on the safe use of the compound on other edible crops. The compound can be harmful to fish and as a precautionary measure the fol-

lowing should appear on the label:—
HARMEUL TO WATER SUPPLIES AND FISH, Do not contaminate ponds and waterways with

chemical or used container.

STORE TIGHTLY CLOSED in a safe place. WASH OUT CONTAINER THOROUGHLY and dispose of safely.

Barban is issued by Fisons Pest Control, Ltd., Harston, Cambridge.

Recommendations have also issued in respect of phenylmercury acetate liquid seed dressing. The Ministry state that phenylmercury acetate when used as a liquid seed dresswhen used as a liquid seed diessing either alone or together with other non-specified substances, and provided it is used only in the "Mist-O-Matic" process, need not be included in the Agriculture (Poisonous Substances) Regulations. Operators should observe the following precautions which should appear on the container label:—
Liquid seed dressing

Avoid contact with the skin to prevent rashes or blister.

WEAR RUBBER GLOVES when handling the

WASH SPLASHES from skin or eyes immediately WASH HANDS AND EXPOSED SKIN before meals

and after work.

The following advice to agricultural workers handling (including drilling) seed treated with a liquid dressing containing phenyl-mercury acetate should also appear on the sack label:—

DO NOT HANDLE treated seed unnecessarily.

Wash Hands and exposed skin before meals and after work.

For the protection of consumers, the Ministry emphasise that contamination of food and feeding stuffs should be avoided, and seed treated should not be used for human or animal consumption even after dilution with non-dressed seed. Sacks that have contained dressed seed must be shaken and thoroughly washed before being used for feeding stuffs. On no account should such sacks be used for millable grain. As a general precautionary measure, the following advice should appear on the label:-

DO NOT CONTAMINATE PONDS AND WATERWAYS

with chemical or container.

STORE TIGHTLY CLOSED in a safe place. WASH OUT CONTAINER THOROUGHLY and dis-

IRISH NEWS THE REPUBLIC

Medical Cards

LABOUR PARTY TABLE AMENDMENT

SPEAKING at the annual dinner of the Gorey, co. Wexford, branch of the Labour Party recently, Mr. Brendan Corish, T.D. (leader of the Party), said it had emerged clearly from the general election that there was a demand for improvement in the health services. In their proposals to have the services reviewed and methods of improving them examined by a select committee of the Dail, the Government had shown some recognition of the reality and the urgency of that demand. The problem of medical cards, however, remained, and the Labour Party had tabled an amendment to the Government's proposal suggesting that the select committee should report before June 30, 1962, and that in the meantime county managers and health authorities should be requested to liberalise the administration of the Health Act, particularly in regard to the issue of medical cards and hospital charges.

IRISH BREVITIES

THE NORTH

ACCOUNTS for payment totalling £238,345 at December 30, 1961, for pharmaceutical services were passed at the December 1961 meeting of the Northern Ireland General Health Services Board in Belfast.

AT the December meeting of the Associates' Committee of the Ulster Chemists' Association, which was held in Belfast, on December 11, the following were approved for associateship: Pharmaceutical Chemists, Mr. S. J. Moore, Mr. D. McLain; Unqualified Assistant, Mr. J. V. Greening; Apprentices, Mr. J. A. Crawford, Mr. A. P. Obichere, Mr. A. F. Ross; Unregistered Assistant, Miss S. Surgeon.

NEWS IN BRIEF

BURGLARS who entered the pharmacy of J. L. Brown, M.P.S., 21 North Methven Street, Perth, recently, escaped with about £20 cash.

FOLLOWING reports that certain contagious disease-carrying organisms might be contaminating imported toffees sold attached to seashells, Nottingham health department recently analysed a batch but found it satisfactory.

Twelve 540-mil transfusion bottles of Ureaphil, a lyophilised ammonia-free urea preparation, manufactured by Abbott Laboratories, Ltd., Queenborough, Kent, and used intravenously to reduce ædema of the brain, were dispensed by John Bell & Croyden, 50 Wigmore Street, London, W.1, on January 16 and dispatched to Moscow in response to an urgent request. An appeal for the injection had been made earlier from Russia to treat Professor L. D. Landau, a leading Soviet physicist, who had been injured in a car accident, and was reported to be dangerously ill.

TOPICAL REFLECTIONS

By Xrayser

Decimal coinage

I note from p. 667 (December 23, 1961) that the Decimal Coinage Bill was recently presented in the House of Commons. It is unlikely that the general public will exhibit any marked excitement at the news, for I find that the whole subject is regarded as an academic exercise for those mathematically inclined, and not at all as a practicable proposition. But it may be that those who scoff will find that the time is approaching when the subject is no longer the theoretical content of a Private Members' Bill but has gone on to the Statute Book and become law. When that time arrives there is a distinct possibility that the pharmacist's experience and superior knowledge will be in great demand, for he has been working with a decimal system of weights and measures (and of currency) for some considerable time. It is possible to visualise a time when the public, untutored and unversed in the intricacies of a decimal coinage, will be directed to the pharmacy for guidance, for there are no others, within my knowledge, who have been operating such a system. For those who feel mystified by the assertion, I commend a reading of a paragraph on p. 668 headed "Scottish News—Uncollected Levies." There we find that, following an inquiry into the frequency with which chemist contractors are unable to collect prescription charges, the revised general allowance in respect thereto is to be 0.05d. per item instead of 0.08d. per item, a drop of 0.03d. (Observe how simple it all is!) For those still possessed of vulgar minds, the allowance in Scotland is henceforth to be 5/100th of one penny. It's much more dignified in a decimal currency.

Pharmaceutical Society's approach

The December 1961 meeting of the Council of the Pharmaceutical Society was noteworthy for its conformity with the precepts enunciated by Mr. Harry Steinman at a recent Conference professional session. "Without the guidance of local organisations, the governing body can neither represent nor implement the opinion of the membership. Without this knowledge a national body is denied the knowledge and stimulus necessary for its own activities." At the December meeting the Council had before it three resolutions, all of which gave evidence of a membership making use of the existing machinery. The form of protest is not so important as the fact that protest has been made, and that the Council has decided to take action. What is significant is that the Council decided to make an approach to the Central N.H.S. (Chemist Contractors) Committee for the purpose of discussing the relations between that committee and the Society. decision should go some way in reassuring the branches that have petitioned their Council, and they may take further satisfaction from the invitation of the Central N.H.S. (Chemist Contractors) Committee to the secretary and registrar of the Pharmaceutical Society (Mr. F. W. Adams) to attend meetings of that committee. The actions indicate an awareness that the days of separate compartments are over.

Public relations

The decision by the Council of the Pharmaceutical Society to appoint a firm of consultants in public relations is in line with modern practice in industry and other fields. There was a time when it was considered that good wine needed no bush, but that time has evidently gone, and images have to be created or projected in order that the public will be in a position to appreciate something it might otherwise have overlooked. Until now, the public has had to form its own estimate from the appearance of the pharmacy and from the efficiency and bearing of the pharmacist himself. It seems inevitable that the experts will have to depend quite heavily, at least in the initial stages, on information supplied by the Council and the staff. You wisely admonish members not to look for quick results, for the policy is a long-term one, but in the long run the best results will be attained by the pharmacist himself in his daily professional task. It is necessary, as Mr. J. B. Grosset said to a meeting recently, to be proud of ourselves and of our pharmacies.

Wholesale Buyers' Gift Fair

1962 RANGES OF CHEMISTS' SUNDRIES ON DISPLAY

A CONSIDERABLE increase in attendance as well as demand for exhibition space was clear evidence of the usefulness of the third Wholesale Buyers' Gift Fair held in London recently. Among the companies exhibiting items of retail and wholesale pharmaceutical interest were:—

AIDEES OF BIRMINGHAM (Aidee Perfumery Co., Ltd., Aidee Home and Export Co., Ltd.), 110 Dale End, Birmingham, 4, exhibited their range of souvenir perfumes, soaps and cosmetics including their localised perfumes (Devon violets and Selkirk's Scotch heather) in local view porcelain, wicker and dimple bottles aerosols etc.

tles, aerosols, etc.

BRITISH VACUUM FLASK Co., LTD.,
31 Alfred Place, London, W.C.1, displayed their Freezheat, Colorvac and
Vax range of vacuum flasks together
with a wide new range of attractively

styled Picnicmaster sets.

CASTLECRAFTS, LTD., Tower House,
Tower Street, Newcastle-on-Tyne,
showed a wide selection, both in materials and design of holdalls, baby travel
bags and nursery trays.



The latest Norvex holdalls are available in a wide range of materials and designs.

C. R. CROSSKILL & SONS, LTD. (Plastics Division), had on display their Norvex range of sponge bags, sunglass cases, toilet holdalls, fitted beauty packs and carrycots. They also featured Norvex baby pants which have welded seams, forward facing legs and are rose perfumed. Waists and legs are elasticised and the pants are available in small, medium and large sizes.

JACQUES SCHALL, LTD., 10 Tottenham Mews, Tottenham Street, London, W.1, featured some of their cosmetic accessories. Those included perfume sprays and sets, an elegant combined lipstick case and mirror designed to accommodate all new "click-in" refills, and a selection of their Swiss convertible, evening, musical and initial powder compacts and vanity cases.

Scintellex, Ltd., 27 Blandford Street, London, W.I, manufacturers of manicure sets, pocket toilets, beauty sets, combs and handbag sprays had a representative selection of products on view. They also showed a variety of mirrors and hair ornaments.

A. B. PRODUCTS (BRADFORD), LTD., 4 Burgon Street, Ludgate Hill, London, E.C.4, showed their Clarissa range of face cloths and towels and their Lady Clarissa perfume sprays, sunglasses, toilet bags, mirrors, lipbrushes, toothbrushes, shaving brushes, nail clippers, etc.

L. Braun, Ltd., 64-68 Whitecross Street, London, E.C.1, direct importers, showed their full Solabra range of French sunglasses, carded and in display boxes.

COLUMBIA PRODUCTS Co., LTD., Sherbourne Avenue, Binstead, Ryde, I.o.W., the manufacturers of Betty Lou cosmetics showed the newest designs in their range of powder puffs, toilet holdalls, quilted cosmetic bags and sponge bags.

COMBEX, LTD., 117-123 Great Portland Street, London, W.1, featured, among various baby's novelties, the Rock-A-Hoop—six graduated lightly coloured polythene rings, described as "an ideal teething toy" and My Own tooth-brush set for young children.

ALFRED FRANKS & BARTLETT Co., LTD., 226 Gray's Inn Road, London, W.C.1, displayed their new 1962 series of Bartex and Bartlett sunglasses and clipovers, together with a wide selection of fancy goods which included perfume sprays and manicure sundries.

D. HARRIS & Co., LTD., 73 Brewer Street, London, W.1, showed a wide range of inexpensive porcelain and Crystal Gems perfume sprays and other toilet requisites which included pearlised and enamel compacts and pill boxes, nail clippers and manicure implements.

HELENA PRODUCTS, LTD., 303 Chase Road, Old Southgate, London, N.14, had their latest range of lambskin, swansdown and velour powder puffs, handkerchief puffs, cosmetic sponges, toilet holdalls, cosmetic bags with press-



The Solflex sunglass cage dispenser holds nine pairs each of four new patterns.

stud or zipp fasteners and cosmetic sponges on show. Specially featured were their Angel Lace nylon-lined baby pants with fifteen dernier nylon lace trimming. The pants are available in both large and medium sizes.

E. R. HOLLOWAY, SALES, LTD., Bessemer Road, Welwyn Garden City, Herts, exhibited the latest styles, colours and stands in their Barnet sunglass range



Two colourful oral hygiene aids for babies and young children by Combex, Ltd.





Above: New " crystal " cabinet for Barnet Super Hylite combs. Each comb is transparent wrapped and guaranteed for two years, Right: Display stand for Barnet sunglasses in continental styles and fashion colours.

and their brush sets, nailbrushes, spray bottles, etc. Also featured was their new cabinet of Super Hylite combs.

KIGU, LTD., Waldo Works, Waldo Road, London, N.W.10, showed the latest designs and colours in their series of gilt, silver and colour finished compacts and compact and lipstick com-

binations, Also glass handbag atomisers.

A. LABIN & Co., LTD., Treforest Industrial Estate, Pontypridd, Glamorgands. shire, showed their new range of fitted beauty cases, pigskin manicure sets and

travelling companions.

LAUGHTON & SONS, LTD., Warstock Road, Birmingham, 14, featured the Stratton range of lightweight Rhodoglass and fashion sunglasses including their Solfex range of Italian sunglasses in new continental styles. Also Stratton compacts (for loose or solid powder) including a new "ten-sided" slim convertible compact and lipstick compacts

in new designs and shades.

FREDK. LEHMANN Co., LTD. (White-cross Optical Co.), Frederick Works, Rochester Place, Camden Road, London, N.W.1, exhibited gift articles in the toilet field including their new designs in scent sprays, beauty cases and manicure sets. Also their full range of Whitecross continental fashion sunglasses on revolving display stands, or

with sales aids. HENRY LEITET & SON, LTD., Condor Works, Summer Hill Road, Birmingham, 1, showed pocket perfume atomisers mounted on Limoges porcelain.

LISSCO PRODUCTS, LTD., Commerce Way, Lancing, Sussex, had on display the newest designs in their range of ladies' brush sets and matching accessories (including powder bowls, cream jars, scent sprays, travelling mirrors, etc.).

SEARCHLIGHT PRODUCTS (ENGINEERS), LTD., 159 Bollo Bridge Road, Acton, London, W.3, had on view the Melissa range of compacts including a new "slim line" mother-of-pearl cream powder case,

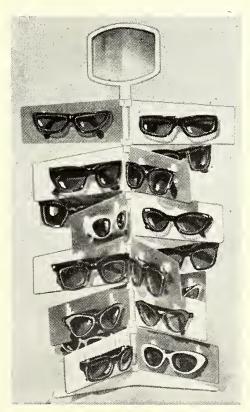
SOLPORT BROS., LTD., Portia House, 44 Spencer Street, Goswell Road, London, E.C.1, showed their Portia range



of holdalls, sponge bags, Watersprite and novelty face cloths, manicure sets and other chemists' sundries. Also their Nerissa powder puff series and Rub-a-Dub loofahs.

SURDENT MANUFACTURING Co., LTD., 784 High Road, Tottenham, London, N.17, informed visitors of their newest line in continental designed sunglasses which are now available to pharmaceutical wholesalers. The lenses are of graduated density and are recommended for motorists.

HENRY WEINBURGER, LTD., Olive House, 20 Bowling Green Lane, Lon-



New mirror stand for the latest Olive range of sunglasses.



small portable immersion heater with zipp case from Henry Weinberger, Ltd.

don, E.C.1, showed their Olive range of sunglasses and display stands, sunglass cases, lipbrushes, American nailclippers and manicure sets. They also featured a small portable immersion heater (complete with zipp case) which they recommend for heating baby's feeds, on the spot "sterilising," etc.

EXPANSION PLANS

FARBENFABRIKEN Bayer, Germany, the big West German chemical company, has formed a subsidiary in New York to further the foreign organisation of its pharmaceutical branch. The subsidiary, with a capital of £1 million, is called FBA Pharmaceutics, Inc.

BECAUSE of greatly increased demand for their interchangeable laboratory glassware, Quickfit & Quartz, Ltd., Stone, Staffs, are to transfer their entire production plant to a new factory being built on a 90-acre site at Walton, Stone. It is hoped that production will start at the new factory by autumn 1962. Main office accommodation will probably be available early in 1963.

CYANAMID Co. of America and Alex Lipworth, Ltd., have formed a jointly owned corporation to manufac-ture and sell Lederle pharmaceutical products in the Union of South Africa. The new firm will be known as Ledlab (Proprietary), Ltd. A new manufactur-ing plant to make tablet and package products of Cyanamid's Lederle laboratories division is under construction in Isando and is expected to be in operation early in 1962. Cyanamid has been operating in South Africa since 1937 through its affiliate South African Cyanamid (Proprietary), Ltd., which has headquarters in Johannesburg and operates a manufacturing plant in Witbank. — The American company and Drug Houses of Australia, Ltd., are to form a joint corporation (Cyanamid D.H.A. Pty., Ltd.) with total assets of approximately £1 million sterling and Cyanamid as the major partner for the manufacture and sale of Lederle brand pharmaceuticals. A plant to manufacture broad spectrum antibiotics is to be built at Laverton, Melbourne, Victoria. Dr. Robert C. Swain (Cyanamid's vice-president for international operations) called the agreement a milestone in Australia's pharmaceutical development. "It will help increase Australia's selfsufficiency by reducing its dependence on pharmaceutical imports," he said. -Plans to construct an insecticide plant in Catania, Sicily, have also been announced by American Cyanamid. The new plant will be operated by Cyanamid Italia, S.p.A.

COMPANY NEWS

GLAXO LABORATORIES, LTD.—Mr. J. M. Craig (chief accountant) has been appointed a director.

WILLIAM RANSOM & SON, LTD.—Mr. Michael Hugh Ransom, B.Pharm., M.P.S., has been appointed to the board as works director in charge of production and research, Mr. L. E. Pearce has retired as works director but retains his seat on the board.

PULLIN OPTICAL CO., LTD.—Mr. T. F. CATON (formerly manager of sales and sales promotion, Monogram Electric, Ltd.), has joined the company in the capacity of managing director. Mr. Caton is current vice-chairman of the British Sales Promotion Executives' Association.

MANBRE & GARTON, LTD.—Mr. Derbe Carlton Berry (managing director) and Mr. Richard Dingle Wright have been nominated to be directors of James Laing Son & Co. (M/c), Ltd., which Manbré & Garton have now acquired, Mr. Edward Gordon Turner (chairman, James Laing Son & Co.) has accepted an invitation to join the Manbré & Garton board,

COURTAULDS, LTD.—The directors are not recommending acceptance of the share exchange offer made by Imperial Chemical Industries, Ltd. (see C. & D., December 23, 1961, p. 672). They state that the current trading position has improved and an increased final Ordinary dividend is forecast which will maintain the total for the year to March 31 at 10 per cent. Following that announcement Imperial Chemical Industries, Ltd., said that they would discuss with Messrs. Courtaulds some further proposals which the latter had made and would make another announcement within ten days.

EDWARD GURR, LTD.—Mr. J. R. Thomas has been appointed assis-

tant director. Mr. Thomas has been with the company for fourteen years in the capacity of personal assistant to the managing director, Mr. Edward Gurr, F.R.I.C., F.L.S.

MILES LAB-ORATORIES, LTD. — Mr. John S. M. Dashwood, B.A., A.R.I.C.,



Mr. J. R. Thomas

has resigned from the British board to take up a post with the parent company, Miles Laboratories, Inc., Elkhart, Indiana, U.S.A., as director of manufacturing and development, Miles International.

RANK PRECISION INDUSTRIES, LTD.—The company is making a one-for-two rights issue of 495,001 Ordinary shares of £1 each at 30s, a share to raise about £740,000. The minority holding of Rank Precision is held by A. Kershaw & Sons, Ltd., constituting the main asset of that company. As Kershaw has no funds with which to

subscribe for the rights issue of Rank Precision, it proposes to raise money to do so by a rights issue of 551,787 Ordinary shares of one shilling each at 10s. 6d, a share on the basis of two for three

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

HELMAN'S VETERINARY PRODUCTS, LTD. (P.C.). — Capital £100, R.O.; Highfields Poultry Research Farm, Longfield Avenue, New Barn Dartford, Kent.

FRANK ROBERTS (HERBAL DISPENSA-RIES), LTD. (P.C.).—Capital £100. Directors: Frank Roberts and Jack T. Fear, R.O.: 4 Forest Edge, Hanham, Bristol.

H. J. SHORE, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, etc. Directors: Herbert J. Shore, M.P.S., and Donald Shore, 87A Russell Lane, Whetstone, London, N.20.

T. A. RANNIE, LTD. (P.C.).—Capital £2,500. To carry on the business of chemists, etc. Directors: Thomas A. Rannie, M.P.S., Jessic F. Rannie and Francis C. Andrews, R.O.: 68 High Road Byfleet Surrey.

Road, Byfleet, Surrey.

ROLAND CHEMISTS (OXFORD ST.), LTD. (P.C.).—Capital £100. To carry on the business of chemists, etc. Directors: Paul R. Fletcher, M.P.S., and Lilly Fletcher. R.O.: 310 Edgware Road, London, W.2.

Road, London, W.2.

E. C. SLEEP (BISHOPS WALTHAM), LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists, and librarians, Directors: Ernest C. Sleep, M.P.S., and Jessie Sleep, R.O.: 231 London Road, Waterlooville, Hants.

APTEKA (1961), LTD. (P.C.).—Capital £100.

APTEKA (1961), LTD. (P.C.),—Capital £100. To carry on the business of chemists, druggists, etc. Directors: Benedykt Tracz, Władysława Tracz and John T. Herman, M.P.S, R.O.: 68 Fulham Road, London, S.W.6.

WALKERS (CHEMISTS), LTD, (P.C.).— Capital £5,000. To acquire the business of chemists carried on by C, J, Reed at Palmers Green, etc. Directors: Cyril J, Reed and Margaret A. Reed, R,O.: 410 Green Lanes, London, N,13.

J. MEGSON (CHEMISTS), LTD. (P.C.).—Capital £500. To carry on the business of chemists, etc. Directors: Jack Megson, M.P.S., Marjoric E. Megson and John K. H. Megson, M.P.S., all of 168 High Street, London, E.17.

EURIMPEX, LTD. (P.C.). — Capital £1,000. To carry on the business of manufacturers of and dealers in pharmaceuticals, chemicals, antibiotics, etc. R.O.: 6 Broad Street Place, London F.C.?

WILLIAM N. GIMMACK (CHEMISTS), LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists and librarians, etc. Directors: W. N. Gimmack and Harry Gimmack, R.O.: 29 Euston Road, London, N.W.1.

PLANTATION DRUG STORES, LTD. (P.C.).
—Capital £500. To carry on the business of chemists, druggists, etc. Directors: Leonard Freedman, 29 Sharon Gardens, London, E.9, and Stuart Stewart.

CITY MEDICAL STORES (BRADFORD), LTD. (P.C.).—Capital £100. To carry on the business of chemists, druggists, etc. Directors: Ronald Davies and Hilda E. Davies. R.O.: 68A Morley Street, Bradford.

SEBOS (H. & S.) FORMULAE, LTD. (P.C.).
—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, shampoos, soaps, etc. Directors: James E. S. Twiner and Raymond C. Moss. R.O.: 8 Drapers' Gardens, London, E.C.2.

VITAQUIFF, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in chemicals, medicines, perfumes, etc. Directors: Leslie G. L. Unstead-Joss, 7 Hallewell Road, Northwood, Middlesex, and

Hallewell Road, Northwood, Middlesex, and Hugh M, Langley.

S. F. WAIN & SONS, LTD, ((P.C.).—Capital £500. To acquire the business of chemist and optician carried on by S. F. Wain, at Hazel Grove, etc. Directors: Sydney F. Wain, M.P.S., and Ada M, Wain, R.O.: Redeliffe, Chester Road, Hazel Grove, Ches.

ALLAN EDMONDS, LTD, (P.C.).—Capital £100. To carry on the business of pharmacy and

drug store proprietors, etc. Directors: Allan Edmonds, Frances K. Walker and Susan R. Walker. R.O.: Abford House, Wilton Road, London S.W.1.

GREENHILL CHEMISTS, LTD, (P.C.),—Capital £100. To carry on the business of dispensing chemists, etc. Directors: William R. Fairest, M.P.S., and Thomas W. Shipstone, M.P.S. R.O.: Sunnybank, Upper Padley, Grindleford Sheffield

Grindleford, Sheffield.

ALLIED CHEMICAL (GREAT BRITAIN),
LTD. (P.C.).—Capital £100. To carry on the
business of manufacturers of and dealers in
chemicals of all kinds, ctc. Directors: John W.
Pearce and John W. Sharman, R.O.: 23 Blomfield Street, London, E.C.2.

BURHILL CHEMICALS (SIDCUP), LTD. (P.C.).—Capital £100, To carry on the business of manufacturers and distributors of fertilisers, insecticides, etc. Directors: William E, Burman and Albert E, Hill, R.O.: 11 Back Road, Sid-

WIMPOLE LABORATORIES, LTD. (P.C.).—Capital £100. To carry on the business of proprietors of dental and general laboratories, etc. Directors: Joy Lambert, Marjorie Jenkins Carradale, and Janette Hornall, R.O.; 109 Jermyn Street, London, S.W.1.

MATHEWS ANTIRHEUMATIC SPECIFIC, LTD. (P.C.).—Capital £100. To carry on the business of chemists and druggists, etc. Directors: William H, Mathews and Charles E, Chapman, R.O.: 20 Beech Close, Walton-on-Thames, Surrey

CIBA CHEMICALS, LTD. (P.C.).—Capital £600,000. To carry on the business of manufacturers of and dealers in pharmaceutical and other chemical products, etc. Solicitors: Linklater & Paines, 59 Gresham Street, London, E.C.2.

MIKENED, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of surgical, medical, and optical instruments, etc. Directors: Edward Chodosh and Morris M. Chodosh. R.O.: 2/W Artillery Mansions, 75 Victoria Street, London, S.W.1.

BAYLEYS CHEMISTS (FRINTON), LTD.

BAYLEYS CHEMISTS (FRINTON), LTD. (P.C.)—Capital £5,000. To carry on the business of manufacturing and dispensing chemists, etc. Directors: Cornelius F. Bayley, M.P.S., and Margaret P. Bayley, R.O.; Granby Place, Granby Street, Leicester.

C.E.A. LABORATORIES, LTD. (P.C.). — Capital £1,000. To acquire the business of fine chemical manufacturers carried on by C. G. Tilley, A. Westwell and C. Smith at Ashton-under-Lyne, etc. Directors: Clifford Smith and Kenneth Lee. R.O.: 3 Fleet Street, Ashton-under-Lyne.

GALA COSMETIC GROUP, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in beauty products, etc. Directors: Stanley H. Picker and William P. Kavanagh (directors, Crystal Products Co., Ltd., Gala of London, Ltd., etc.). R.O.: Hook Rise, Kingston-by-Pass, Surbiton, Surrey.

H. M. GARDNER, LTD, (P.C.). — Capital £12,000. To acquire the business of pharmaceutical chemist carried on by the exors of the late Henry M. Gardner at Bridge Street, Stafford, etc, Directors: Marjorie V. Gardner and Ann M. Gardner, 37 The Oval, Stafford, and Andrew B. Hargreaves.

THOMAS & SONS (EASTNEY), LTD. (P.C.).—Capital £1,000. To acquire the business of dispensing chemists carried on by Mr. F. F. Glanville, M.P.S., Southsea, Hants, etc. Directors: Maxwell H. Thomas, Agnes Thomas, Herbert R, Thomas and Geoffrey F. Thomas, F.P.S. R.O.: 189 Eastney Road, Southsea, Hants,

F.P.S. R.O.: 189 Eastney Road, Southsea, Hants. PRODUITS DE BEAUTE JUVENA (G.B.), LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in cosmetics and medical substances, etc. Directors: Andrew Martin, George Winter and Ernst G. Locher (Swiss). R.O.: 229A Shaftesbury Avenue, London, W.C.2.

PREBBLES (MEDICAL), LTD. (P.C.).—Capital £100. To carry on the business of chemists and druggists, etc. Directors: Harry E. Prebble, M.P.S., Ernest P. Prebble, M.P.S., Frank Prebble, Edith B. Prebble, Dr. Ernest E. Prebble and Joseph E. Banning, R.O.: 187 Kensington, Liverpool, 7.

HENEAGE DRUG STORE, LTD. (P.C.).-

Capital £1,000. Directors: Matthew Werge, M.P.S., Constance M. A. Werge and Jean B. Wilson, R.O.: 184 Clee Road, Grimsby.

D. M. OWEN, LTD. (P.C.).—Capital £5,000. To carry on the business of chemists, etc. Subscribers: David M. Owen, M.P.S., and Sophie Owen, 11 High Road, Broxbourne, Herts.

Owen, 11 High Road, Broxbourne, Herts.

A. W. SUTTON (CHEMISTS), LTD. (P.C.).—
Capital £1,000. To carry on the business of chemists and druggists, etc. Subscribers:
Arthur W. Sutton, M.P.S., 39 Heathfield Road,
Southport, and John W. Pendlebury, Jack W. Pendlebury, signs as director.

HUNTINGTON LABORATORIES (ENG-LAND), LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in medicinal tablets and preparations, etc. Subscribers: Humphrey G. Dawson, 101 Wimbledon Hill Road, S.W.19, and Gilbert S. Wood. Solicitors: Stafford Clark & Co., 3 Laurence Pount-

ney Hill, London, E.C.4.

C. W. FIELD (1961). LTD. (P.C.).—Capital £100,000. To acquire the business of distillers of essential oils, manufacturing chemists and grinders of drugs, etc., carried on by C. W. Field, Ltd., at Edwards Lane, Speke, Liverpool, and also to carry on the business of soan makers. and also to carry on the business of soap makers and refiners, etc. Directors: Clarence H. Moors, Clement T. Haimes, John T. B. Coulson and Gerald W. Williams.

BUSINESS CHANGES

MR. W. J. MACAULAY, M.P.S., has acquired the Riddlesdown Pharmacy, 104 Lower Barn Road, Purley, Surrey.

FRASER CHEMICALS, LTD., have removed to 88 Lewisham High Street, London, S.E.13 (telephone: Lee Green

PARFUMS DE LUCIEN LELONG, LTD., is the new title adopted by Stanley C. Johnson, Ltd., 51 City Road, London, E.C.1.

C. F. THACKRAY, LTD., are closing their pharmacy at 52 Gt. George Street, Leeds, 1, at the end of January. The business of manufacturers of surgical instruments and hospital equip-ment will be unaffected by the change.

PERSONALITIES

MR. H. C. THOMAS, M.P.S., Aberdare, Glamorgan, who was manager of the local branch of Boots, Ltd., has retired after forty-five years' service with the company, the last twenty-three of them at Aberdare. Mr. Thomas has been chairman of the Aberdare and Merthyr Pharmacists' Association and a past president of the Aberdare Chamber of Trade.

MR. MICHAEL HUGH RANSOM, B.Pharm., M.P.S., who has been ap-

pointed to the board of William Ransom & Son, Ltd. (see p. 32), is the eldest son of Mr. R. F. Ransom (chairman of the com-pany) and is a great - grandson of William Ransom who foun-ded the firm 1846. Mr. M. H. Ransom studied phar-



macy at the Pharmaceutical Society's school (now within the University), and has had experience in hospital pharmacy in Canada and of retail pharmacy in England, In 1956 Mr. Ransom joined

I. P. Callinson & Sons, Inc., manufac-Washington State, turing chemists, U.S.A., where he worked on the analysis of essential oils and production of digitoxin and cascara preparations. He joined the Ransom family business in Hitchin in 1956 and later had one year as assistant lecturer in pharmacognosy at the School of Pharmacy, Bloomsbury Square. After further experience of pharmaceutical manufacture in America, he returned to Hitchin in 1960, where he has been gaining experience in the various branches of the company's manufacturing activities. Mr. Ransom's wife, Margaret Jane Brough Ransom, recently graduated in medicine from Cambridge University.

MR. L. E. PEARCE, who has retired as works director of William Ransom & Son, Ltd. (see p. 32), joined the firm in 1906 and has been with the company for the whole of his business life with the exception of four years in France during the 1914-18 war. As a young man he was a keen footballer and has retained his interest in sport throughout his life. Today he is well known as a bowls player and was president of Hitchin Town Bowls Club in 1961. He has also played for the county. Mr. Pearce's specialised knowledge in the production of galeni-cals and the distilling of essential oils from plants grown on the drug farm has been a great asset to Messrs, Ransom. He held the position of general works manager for many years before joining the board in 1945.

MARRIAGES Diamond Wedding

HALLETT.—Mr. and Mrs. William John Hallett, M.P.S., Galen, Forester Lane, Bathwick, Bath, celebrated their diamond wedding on Christmas Day. At eighty-seven, Mr. Hallett is Bath's oldest retired pharmacist. He qualified in 1896. A founder of Bath Chemists' Society—which later became the local branch of the Pharmaceutical Society-Mr. Hallett held several offices, including those of secretary (for more than forty years) and of president. For many years he was in business in Stall Street,

DEATHS

BOWEN. — On December 29, 1961, Mr. Gwylim Bowen, 8 Bridge Street, Traedyrhiw, Merthyr Tydfil, Glam. Mr. Bowen qualified in 1952. He was pastpresident of the Traedyrhiw and district chamber of trade and the Merthyr and Aberdare Branch of the Pharmaceutical Society.

CRAN. — Recently, Mr. William Strath Cran, M.P.S., the Elms, Longside, Aberdeens. Mr. Cran qualified in

FOSTER.—Suddenly, on January 7, Mr. Archibald Donald Foster, M.P.S., 151 Goldstone Crescent, Hove. Mr. Foster qualified in 1914.

GEARY. — On January 2, Mr. Samuel Geary, Wayside, Harepath Road, Seaton, Devon. Mr. Geary, who qualified as a chemist and druggist in 1891 was at one time in business in Leicester, Oldbury, Worcs, and Eccleshall, Staffs.

LLEWELLYN.—In a nursing home at Derby on January 9, Mr. David Lewis Llewellyn, M.P.S., 18 St. Normans Way, East Ewell, Surrey. Mr. Llewellyn, who qualified in 1899, was for many years in business at Goodwick, Pembrokeshire.

LLOYD. — Recently, Mr. Henry Bright Lloyd, M.P.S., 5 College Road, Cheltenham, agcd eighty-six. After qualifying, Mr. Lloyd went into partnership with the late Mr. King in Cheltenham and the business received the patronage of Queen Victoria. Mr. Lloyd qualified in 1935.

LLOYD.—At a Manchester nursing home on December 23, 1961, Mr. Alfred Lloyd a senior director of Calmic, Ltd., Crewe Hall, Crewe. Mr. Lloyd began his career with the company in 1940 at Liverpool. Over the last fifteen years he has travelled widely on behalf of the company and participated in establishing branches of Calmic, Ltd., in Australia, Canada, Germany and Switzerland, and agencies throughout the

MILLER.—On December 20, 1961, Mr. John Frederick William Miller, M.P.S., 651 Leigh Road, Leigh, Lancashire, aged fifty-five.

MILLS.—On December 19, 1961, Mr. Bert Mills, M.P.S., 19 Diseworth Street, Leicester, aged sixty-eight.

MORAN.—On January 4, Dr. Francis Gerard Moran, Howth Road, Dublin. Dr. Moran qualified as a pharmacist in Dublin in 1932. He then studied medicine and took his degree in 1939. After service in the army he later set up an extensive private practice in Dublin.

SIMNETT.—On December 31, 1961, Mr. Herbert Frank Simnett, M.P.S., End-Waye, Brookhurst Gardens, Southborough, Kent, aged eighty-nine. Mr. Simnett was for many years in business at 28 England's Lane, London, N.W.3.

STEGGLES.—On December 1961, Mr. Cecil Steggles, 27 Watford Road, Kings Langley, Herts. Mr. Steggles qualified as a chemist and druggist in 1909.

INQUESTS

Anti-depressant Tablets.—A verdict of death by misadventure was given at an inquest on December 16 following the death of Anthony Cunneen, Kilkishen, co Clare. The boy, who had been rushed to the county hospital, Ennis, the previous evening died from excessive cerebral irritation caused by taking anti-depressant tablets. A relative stated that the boy told her he had taken "some sweets which he had in a box upstairs." It was believed that he might have taken between 10 and 20 of the tablets.

N.H.S. STATISTICS

In LIVERPOOL in May 1961, 348,696 prescriptions were dispensed at a cost of £130,546.

In Surrey during July 1961, 427,532 prescriptions were dispensed at a total cost of £192,215. Average cost per prescription 107.90d. During August 1961, 395,739 prescriptions were dispensed at an average cost of 108.38d. and a total cost of £178,701.

TRADE NOTES

A Dispensing Pack. — H. R. Napp, Ltd., Commerce Way, Lancing, Sussex, announce that their PCM (paracetamol) tablets are now available in a pack of 2,500.

A Wide-mouthed Pack.—Fassett & Johnson, Ltd., 86 Clerkenwell Road,

London, E.C.1, distributors of the Dentural denture cleanser manufactured by Pharmaceutical Products,
Ltd. (a subsidiary of Savory & Moore, Ltd., Standard Works, Lawrence Road, London, N.15), state that it is now in new widethe mouthed pack illustrated. The colour scheme is in and white. [Corrected note.]



A Balm in a Tube.—Said to be "of well-proven formula," Gonne pain relieving balm, manufactured by G. R.



Lane Charabs, Ltd., Horton Road, Gloucester, is being promoted by advertising in the national and local Press.

Impregnated Cotton Wool. — Carter Bros., Glen Laboratories, Shipley, Yorks, announce that supplies of their Zono Therm-O-Wool are freely available. The demand for the product,



which has been marketed for well over thirty years, has risen greatly during the past twelve months. The product consists of absorbent cotton wool impregnated with capsicum, methyl salicylate, camphor and terebene, and its obvious uses are where local warmth is required for relief from pain and inflammation. Zono Therm-O-Wool is available in two sizes, plain or gauze covered.

Reintroduced. — Smith & Nephew Pharmaceuticals, Ltd., Bessemer Road, Welwyn Garden City, Herts, announce that Thermona analgesic cream has been reintroduced for over-the-counter sale. Since the product was discontinued in the home market there has been a continuous demand for its reintroduction, and in the intervening years

it has become firmly established in overseas markets.

Hairspray Aerosol.—The attractive 6-oz. container in which Mondart, Ltd., Berkeley Square House, London, W.1, issue their Linda Lee perfumed hair spray (see C. & D., December 9, 1961, p. 628), is lilac-coloured, with black and blue lettering, and cap in matching lilac.



Free Pocket Pack.—Kimberly-Clark, Ltd., Larkfield, Maidstone, Kent, makers of Kleenex tissues, announce that during January and February, the peak months for colds, there is available a free Kleenex pocket pack banded on to the economy box of white Kleenex.

Information for Manufacturers

Computer Service. — A computer bureau is being established at 223 Bristol Road, Birmingham, early in 1962 by Computor Services (Birmingham), Ltd. The charge for hire of the computer is £20 per hour.

Polypropylene. — Imperial Chemical Industries, Ltd., London, S.W.1, have introduced Propathene polypropylene. Articles made from Propathene are light, rigid and tough with a brilliant surface that resists scratching and staining. The company have issued a specially designed label that is to be applied to products made from Propathene.

Distributors of Alkyl Phenols.—C. Tennant, Sons & Co., Ltd., 9 Harp Lane, London, E.C.3, in conjunction with Fallek Chemical Corporation, New York, U.S.A., have taken over the United Kingdom sales distribution of alkyl phenols, in addition to the aryl mercaptans, produced by Pitt-Consol Chemical Co., Newark, New Jersey. Brochures and samples are supplied on request.

"Achema" Space Fully Booked.— Floor space available for the Achema Congress, 1964, at the exhibition grounds of the City of Frankfurt-on-Main, Germany, has already been fully booked. Achema 1964 lasts from June 26 to July 4. Information is obtainable from Dechema (Deutsche Gesellschaft für chemisches Apparatewesen), Frankfurt-on-Main, 7, Germany.

Antitussives. — For formulators of antitussive compounds, W. J. Bush & Co., Ltd., Ash Grove, London, E.8, offer guaiphenesin (α-glyceryl guaiacol ether). — Macfarlan Smith, Ltd., Wheatfield Road, Edinburgh, 11, announce that they have available immediately from stock codeine phosphate, pholcodine, ethylmorphine hydrochloride, and narcotine alkaloid.

Cold Cleaner and Solvent.—A plant to make 1.1.1-trichloroethane, a solvent not previously manufactured in the United Kingdom, has been completed by Imperial Chemical Industries, Ltd., Widnes, Lancs. The new solvent, which is being sold under the trade mark Genklene, extends the range of chlorinated solvents already made by the general chemicals division of I.C.I. Genklene is understood to be non-inflammable, of medium volatility and low toxicity and thus specially suitable for cold cleaning. It is likely to become widely used for cleaning machinery in situ without dismantling, and for many routine production and maintenance jobs. In addition to its use for cleaning, it is expected to find an application as a solvent in adhesive compositions. Genklene is being sold in 5- and 45-gall. drums.

A New Symbol.—United Glass, Ltd., Leicester House, Leicester Square, Lon-

don, W.C.2, announce that a new symbol is now incorporated in the advertising of United Glass, Ltd. It consists of the letters UG inside a hexagonal framework suggestive of a quartz



crystal structure. Its six sides are designed to convey an impression of the many-sided activities of the United Glass group of companies, Those include the manufacture of metal and plastic closures, stoppers and capsules by Kork-N-Seal, Ltd., of flexible and rigid thermoplastic containers by United Glass (Thermoplastics), Ltd., and of stemware and tableware in addition to glass containers of every kind. UGB, the familiar abbreviation of the company's former name (The United Glass Bottle Manufacturers, Ltd.) will remain the trade mark.

Directory of Consultant Chemists.—Publication of the Royal Institute of Chemistry's Directory of Independent Consultants in Chemistry and Related Subjects brings to notice the wide range of consultant services offered by independent practices operated and controlled by Fellows or Associates of the Institute in Great Britain and Ireland. To make better known the nature and scope of those services and their value to industrial firms, public bodies and other organisations and individuals, copies are being widely distributed. In general plan the Directory is similar to earlier editions, but the format and presentation have been changed to improve its

appearance and facilitate its use. Conditions of eligibility of practices for inclusion have not been substantially altered, but thirty practices started in the past six years have been accepted for inclusion. The edition contains particulars of over 150 practices, in which nearly 180 Fellows and Associates are principals. Services offered extend to chemistry's borderlands with physics and engineering, and with the biological sciences, medicine and agriculture. They cover analytical control of materials and processes in relation to industrial efficiency and the safeguarding of public health, and the investigation and development of new and improved materials and processes. Copies are free to anyone concerned with obtaining such services.

Bonus Offers

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2. Until February 10. Special display offer of Allenburys pastilles, one free tin per doz. on parcel of 8 doz. 2-oz. tins. Capriton tablets, one free tube per doz. on parcels of 4 doz. tubes of twelve, and two free tubes per doz. on parcels of 8 doz. Dequadin lozenges, 6 doz. tubes of twenty charged at 11/12 trade price and twelve doz. charged at 10/12.

BIOMETICA, LTD., Barnet By-pass, Boreham Wood, Herts. Buto. Five per cent. discount on all direct orders for Buto (all sizes) received by the company from January 15 to February 15.

CHARNWOOD LABORATORIES, Loughborough, Leics. Super Plenamins, Six 5s. 6d, size free with all orders for 6 doz. 5s. 6d, size or equivalent in larger sizes. Children's aspirin 13 to doz. minimum quantity two doz. Bisma-Rex powder and tablets, 13 to doz minimum quantities for small sizes two doz.

E. R. HOLLOWAY SALES, LTD., Bessemer Road, Welwyn Garden City, Herts. Combs. All large cabinets ordered between January 1 and February 16, will contain six free combs and all small cabinets three free combs. Cabinets have been redesigned. The new R1 cabinet contains the new range of Super Hylite combs (ninepence to 1s. 6d. each), each individually packed and guaranteed for two years. For Super Hylite combs on cards the offer is of 1 doz. 5-in. combs free in a parcel containing 1 doz. each 6-in. and 7-in. combs.

MAY & BAKER, LTD., Dagenham, Essex. M. & B. antiseptic cream. Thirteen to doz. Distributors. Pharmaceutical Specialities (May & Baker), Ltd.

Sanitas Group Sales, Ltd., Sanitas House, Clapham Road, London, S.W.9. Iodised Balmosa. One free tube with every dozen 2s. 6d. size. Until January 31.

SMITH & NEPHEW PHARMACEUTICALS, LTD., Welwyn Garden City, Herts. Dilacol and Thermona. Fifteen to doz. on direct order for 1 doz. or more either product. Until March 31.

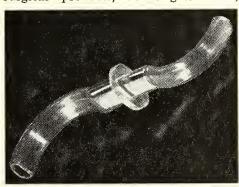
SOUTHON LABORATORIES, LTD., Western House, Gravel Hill, Bexleyheath, Kent, Skin Soft calamine cream. 10 per cent, discount allowed off all orders until February 28.

NEW PRODUCTS AND PACKS

Topical Corticosteroid. — "Superior antipruritic and anti-inflammatory activity" is claimed for Drenison brand flurandrenolone, a newly launched speciality of Eli Lilly & Co., Ltd., Basingstoke, Hants. The compound is presented alone in a cream (0.05 per cent.) and ointment (0.05 per cent.) and with neomycin also as cream and ointment, both in packs of 5 and 15 gm.

A New Cough Syrup.—H. R. Napp, Ltd., Commerce Way, Lancing, Sussex, announce the introduction of a new speciality Cyprol cough syrup, each fl. oz. of which contains 30 mgm. of dextromethorphan hydrobromide, 75 mgm. of ephedrine hydrochloride; 250 mgm. of ammonium chloride; 0.03 mils of ext. ipec. liq.; 7 mils of syrup of tolu; 2.95 mils of glycerin. The packs are bottles of 4 and 16 fl. oz.

Resuscitation Aid. — The Portex mouth-to-mouth resuscitation tube, manufactured by Portland Plastics, Ltd., manufacturers of Portex medical and surgical products, 50 Oxgate Lane,



London, N.W.2, is designed to help the application of a form of artificial respiration now considered by the Red Cross and the World Health Organisation to be more effective than other methods. The device consists of an S-curved tube in transparent non-toxic polyvinyl chloride, with metal bite blocks and a flange in the central section. Sterilisation (by boiling) may be repeated indefinitely without harm to the tube.

Repackaged. — Nicholas Products, Ltd., 225 Bath Road, Slough, Bucks, announce that they are replacing their ten-tablet pack of Rennies with a new twelve-tablet pack. The new pack is foil-wrapped for greater protection and bears the name Rennies in bold, clear lettering. A new colour combination of red, white and black has also been introduced.

Triple Action Cold Treatment.—For the relief and alleviation of cold symptoms, Arthur H. Cox & Co., Ltd., Brighton, offer "cold discs" each containing vitamin C 50 mgm., paracetamol 400 mgm., and phenylephrine hydrochloride 5 mgm. The discs are strippacked in foil. Each carton, which is printed in pink, black and white, contains twelve discs. They are attractively presented in show outer of one dozen.



PRESSURISED HAIR CREAM: Captain hair cream, believed by the manufacturers, W. B. Cartwright, Ltd., Rawdon, Leeds, to be first of its kind in an aerosol container. (See also C. & D., January 6, p. 8.)

Prizes for Customers.—André Philippe, Ltd., 71 Gowan Avenue, London, S.W.6, are launching a new "sophisticated note" perfume by means of a competition in which customers are asked to give the product a name. The bottles are sent out to chemists in a white-enamelled-finish display outer of 2 doz, with showcard, tester and twenty-four entry forms. Full credit is being allowed by the manufacturers for unsold stocks returned after the closing date of the competition (April 30).

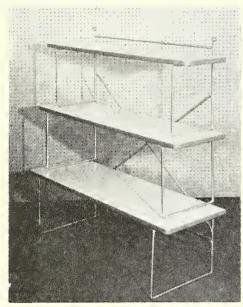


FACE LIFT: Newly designed packs for Aspro are being introduced gradually during the coming months. In the new designs the name of the product is in a clearly defined type and an overall impression of restraint and quality has been the aim. New display boxes feature the current advertising theme: "Aspro Brings All-round Relief." In the pocket "strip" pack the full instructions for use have been put on the reverse side of the strip.

SHOPFITTING AND DISPLAY

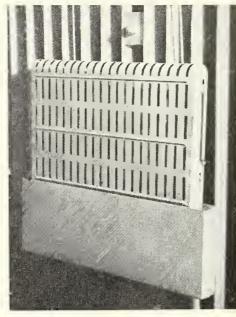
Album of Shop Interiors.—An album containing over 150 photographs of shop interiors has been produced by John Wilkins Equipment, Ltd., 231 St. John Street, London, E.C.1. The photographic illustrations include layouts both in the United Kingdom and on the Continent designed by well-known architects, designers and shopfitters. Among them are some of pharmacies. Copies are available from the company on request.

Unit-structure "Gondola." A threetier gondola made up of units that fold away flat when not in use is to be had from the display division of Porosan (DIY), Ltd., South Street, Chichester,

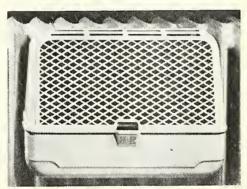


Sussex. Each unit is 3 ft. high and complete with three laminated plastic covered shelves, edged all round. The structure is made from $\frac{3}{8}$ in, tempered aluminium and the shelves are $\frac{3}{4}$ in, thick by 3 ft. long and are 12, 10 and 8 in. wide respectively in pastel blue, red or green. A circular gondola on the same principle is also available.

Radiator Humidifiers.—Townloc Engineering Co., Ltd., 20 Tooks Court, Cursitor Street, London, E.C.4, have become the agents in the United Kingdom for the J.U. humidifier for use with all types of oil-filled and waterfilled radiators. The humidifier consists of an inner casing containing a replaceable "concertina" filter of prepared paper, a water tank and water-level indicator—the whole enclosed in a metal casing finished in glossy white with a grid front. Water is poured into



a lip incorporated in the outer casing until it reaches the "full" mark on the indicator. As the water evaporates into the atmosphere so the tank is topped-up when the level falls. The whole unit is suspended by hook clips, which are adjustable to suit all types of radiators, whether panelled or open-fronted.—The new H-R humidifier introduced by Hygro-Robot, Ltd., 68 Oxford Street, London, W.1, is made of heavy duty



thermoplastic capable of resisting corrosion and of being easily cleaned. Available in ivory, old gold, brown and black and in combinations of those colours the H-R blends readily with any décor. It consists of four parts: The water container which holds four pints; grille cover; radiator mounting hooks, and filter which is suspended on plastic hooks moulded inside the grille cover. The filter is required to be replaced every five-six weeks. The humidi-

fier is designed with an opening in the front which allows easy filling without removing the cover, and the mounting hooks or bolts are designed for fixing to modern radiators and to ensure a rigid fit and self-alignment. The company also supply pine-needle essence, three-four drops of which may be added to the water or applied to the filter.

EQUIPMENT AND ACCESSORIES

Range Extended.—Jacob, White & Co., Ltd., 324 Upper Street, London, N.1, have made available a larger model of their steriliser for eye solutions in dropper bottles. The new model holds sixteen bottles, of which eight may be of 1-oz, size.

Modified Drum Storage Unit.—A new version of the Stak-a-Drum drum storage unit is available from Powell & Co., Burry Port, Carmarthen. It enables standard 40–50 gall. drums to be stacked in pairs up to five tiers high by means of a fork-lift truck. Made from tubular steel, the unit is lightweight and portable.

"Kite-marked" Fire Extinguisher.—Nu-Swift, Ltd., Elland, Yorks, have introduced a new "plus" range of pressure-charge-operated fire extinguishers containing either chlorobromomethane or carbon tetrachloride with added carbon dioxide, and carrying the "kite" mark of the British Standards Institution. The range supersedes the existing Nu-Swift Auto extinguishers, though pressure charges for the old types of extinguisher will continue to be manufactured for present users for the next ten years or longer.

MATERIALS AND MAINTENANCE

Bottle Washing Compound.—Diversey (U.K.), Ltd. (Food Industries Division), claim that Bril-Tak bottle washing compound has a most powerful cleaning action, enabling it to disintegrate and remove all types of contamination. The chelating action of the compound is due to the sodium gluconate in its composition. It holds in solution many types of contamination and prevents them from being redeposited on bottles and machine parts. The manufacturers claim excellent label removal. Where aluminium foil labels are present, Bril-Tak "ties up the aluminium," thus liberating the caustic for its real job of cleaning."



TWENTY - TWO
TIMES TWENTYFIVE: Twenty - two
employees of the Gillette Safety Razor Co.
received awards for
twenty-five years' service recently at the
company's Isleworth
factory, The awards
(clocks, gold watches
and canteens of cutlery)
were presented by Mr.
Willis C. Cooper
(chairman of Gillette
Industries, Ltd.), Mr.
Cooper is right centre.

EIRE HEALTH SERVICES DEBATE

Fine Gael Party's proposed scheme defeated in Dail

BY eighty votes to forty-four, the motion by MR T. F. O'HIGGINS that the present health service scheme should be replaced by a comprehensive health service based on the principles of insurance (see C. & D., December 16, 1961, p. 662), was defeated in the Dail on December 7, 1961.

Resuming the debate, which had opened on November 23, 1961, ALDERMAN F. SHERWIN suggested that the Health Act had caused as much ill health as it had cured. How, he asked, could an ordinary worker with a family, but without a blue card, afford to have his children treated if he had to pay 7s. 6d. to the doctor; and 15s., £1 or £2 for a prescription? He felt that no matter how much the ceiling for blue cards was raised hardship would still be caused to border-line cases. "There is hardship," he said "among at least 30 per cent. of the workers in the city, and the Health Act is responsible for a good deal of ill health because people cannot afford to engage a doctor and pay for the prescription.

SIR ANTHONY ESMONDE (Fine Gael), said that since the present Act was debated in 1952, there had been increased pressure on the community to maintain people in hospital, to pay doctors and, above all, to pay the cost of drugs, which had increased out of all proportion to what they were before.

Dr. J. Ryan (Minister for Finance) said the present Act laid down that those who could not provide for medical services out of their own industry or other lawful means were entitled to health services absolutely free. If a county manager were not interpreting the Act properly the proposed Committee of Selection could investigate the matter. Referring to a suggestion that there should be night dispensaries, Dr. Ryan said they had been tried out were not a great success. They could be tried again. He had thought, when Minister of Health, that there would be many in Dublin who would be glad to avail themselves of them but they were

hardly patronised at all.

MR. O'HIGGINS, replying, said it was essential that an ordinary person of limited means should be able to regard the prospect of sickness or illness in his family with some mental calm. He was not suggesting that the doctor's fee was exorbitant, but the visit of the doctor to a house meant for a worker a prescription for a drug or medicine at the chemist's shop, which often he was unable to face. Under the present scheme there were unfortunates who might be able to pay some portion of a doctor's fee and part of a chemist's bill, but they would not be able to ob-tain a medical card because they could not show that they were completely unable to provide for themselves. Under the present scheme at least 50 per cent. of the people received no help whatever in relation to medical service outside hospital. "The result is that we drive those people into hospital" he went on. Mr. O'Higgins said that under his proposed scheme his Party wanted to build up, through an insurance scheme, a proper medical and nursing domiciliary service so that frequent recourse to hospital might not arise.

A Government amendment that a select committee consisting of nineteen members of the House, with a quorum of seven, be nominated, with powers to examine to what extent, if any, the existing health service should be amended, was carried by the same majority as that by which Mr. O. Higgins' proposal was defeated (eighty to forty-four).

A Labour amendment that the select committee should report back before Junc 30 was altered to read "Before November 30," and unanimously accepted.

"We agree with the suggestion, but I would urge that the Minister's department might ask county managers to deal with the matters provided for in the Act. They are not doing that at the moment," said MR. J. TULLY (Labour).

OVERSEAS NEWS

HONG KONG

Contraband Opium Seized

Preventive service officers seized 190 lb. of raw opium, stated to be worth about £14,000, aboard a British Ministry of Transport vessel on December 22, 1961. A total of 500 lb. of opium had been confiscated earlier in the year, but that was the biggest single

SOVIET RUSSIA

Anti-polio Campaign

THE World Health Organisation reports that 77,478,000 Soviet citizens aged from two months to twenty years were vaccinated against poliomyelitis in 1960. Live poliovirus vaccine prepared from Sabin strains incorporated in bon-bons was used for approximately 95 per cent. of those immunisations. The vaccine was also used for more than thirteen million people in Albania, Bulgaria, Hungary, Viet-Nam, German Democratic Republic, main-land China, North Korea and Czechoslovakia.

UNITED STATES

Electronic Diagnosis

COMPUTERS may soon assist medical science in formulating rapid and precise judgments of patient illnesses, according to the president of the [American] National Biochemical Research Foundation, Inc. He told the 1961 Computer Applications Symposium in Chicago, recently, that it was now possible to convert the medical diagnostic process into mathematical models, which could then be programmed into a computer. Such techniques, he said, became a more precise formulation of the reasoning used in modern diagnosis. Computers were able to provide a quicker analysis of all the steps involved in diagnosis, and were more accurate in recalling the desired aspects of a patient's medical record.

Congress on Medical Quackery

A FIRST National Congress on Medical Quackery was held in Washington, D.C., in October 1961. The congress, jointly sponsored by the American Medical Association and the Food and Drug Administration, was attended by 670 invited representatives, including representatives of all national pharmaceutical associations, deans of many colleges of pharmacy and secretaries of various boards of pharmacy.

A spokesman for the American Cancer Society presented the following eight points identifying the charlatan:

- 1. His treatment is usually secret or its method of preparation is secret or it is available only from himself.
- 2. He uses advertising, planted stories or "testimonials" to support his claims -not reports in current, reputable scientific journals.
- 3. He often uses the name of a highsounding research organisation or foundation.
- 4. He discourages or refuses consultation with reputable local physicians, claiming that the "medical trust" is against him.
- 5. His records are scanty or non-existent.
- 6. Many of his "cured" cases have no evidence of having had the disease when he treated them.
- 7. His chief supporters may be distinguished statesmen, actors, writers, lawyers, or even doctors-but not persons experienced in the natural history of the disease or the care of the patients with the disease.
- 8. Following representations by the Press or by legal authorities, he usually promises to make some of his product available to an official health agency or medical commission for adequate trial. But, he seldom provides it for trial.

Summing up the congress, the director of the Americal Medical Association's department of investigation called for a programme directed towards the objective of acquainting the public with the problem.

Post-bomb Health Measures

A CONFERENCE on "disaster medical care" sponsored by the American Medical Association's Council on National Security was told recently that the American Government and medical services must develop a health programme to provide for the population in the ten years after the event of a nuclear war. Such a programme, according to Dr. J. K. Shafer (health adviser to the U.S. Office of Emergency Planning), should include in and patient, nursing home and domiciliary care, plus preventive and curative services. Planning was also needed to ensure that education and training of health personnel continued in the years after an attack. Another speaker described the present policy of stockpiling medical supplies in isolated Federal warehouses as "not realistic," and urged rather that small medical dumps of staple supplies should be located near to the places in which they were likely to be called upon to be used.

NEW BOOKS

Calender of the Pharmaceutical Society of Great Britain 1961-62

Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. $9 \times 5\frac{3}{4}$ in. Pp. viii + 319. 20s. (postage 1s. 6d.). The 1961-62 edition follows the same pattern as in previous years providing a complete reference of the officers, administration and activities of the Society. A section is devoted to some of the various statutes and regulations affecting pharmacy. The regulations for the examination are set out and scholarships and awards are listed.

The Merck Manual (10th edition)

C. E. LYGHT (editor). Merck Sharp & Dohme Research Laboratories, Rahway, N.J., U.S.A. $6\frac{3}{4} \times 4\frac{1}{4}$ in. Pp. xv₁ + 1,907. 60s.

As in previous editions dating back to 1899, the object has been to provide members of the medical and allied professions with an up-to-date reference guide to diagnosis and therapy. Twenty new subjects and additional illustrations have been incorporated. It is significant that the manual's 104-page formulary (headed "prescriptions") has abandoned apothecaries' weights and measures in favour of metric quantities.

The Actinomycetes, Vol. II

SELMAN A. WAKSMAN, Baillière, Tindall & Cox, Ltd. 7 Henrietta Street, London, W.C.2. 10 x 7 in. Pp. 363. 120s.

THE volume deals with the recognised genera of the actinomycetes only; closely related genera that are often included in the order Actinomycetes, notably the genus mycobacterium, are not covered. The actinomycetes are split into three families and are further divided into ten genera. Certain other genera receive mention and in addition a large number of other species are listed as "incompletely described."

Industrial Editing: A Handbook on House Journals

BERNARD SMITH. Sir Isaac Pitman & Sons, Ltd., Parker Street, Kingsway, London, W.C.2. $8\frac{3}{4}$ x $5\frac{1}{2}$ in. Pp. xl + 225. 27s. 6d.

"We can all agree that there is a need for house journals . . . and we can all agree that it is not an easy matter to run them," commented the Duke of Edinburgh at a luncheon to the British Association of Industrial Editors in 1960. This long-needed book, which was commissioned by the Association, should help to show the way. Throughout the book Mr. Smith follows the definition of a house journal as "a publication issued periodically, and not primarily for profit, by an industrial undertaking, a business house, or a public service." The author supplies a comprehensive guide for those producing and editing industrial and technical material, dealing fully with the running of internal and external house journals, and giving technical guidance on printing, blockmaking, design and layout. Two useful appendices deal with "The House Journal Editor and the Law" and technical terms respectively.

The British Medical Dictionary

SIR ARTHUR SALUSBURY MACNALTY (cditor). The Caxton Publishing Co., Ltd., 25 St. George Street, London, W.1. $11\frac{1}{4}$ x 8 in. Pp. xix + 1680. 210s.

WHEN, fourteen years ago, work began on compiling this volume, there was already an urgent need for an up-to-date standard work of reference in which the terminology was that accepted in British, rather than American, medicine and surgery. The editor and publisher were thus placed in the enviable position of having the backing of the medical and allied professions right from the start. The extent to which they have drawn on that specialist knowledge is borne out by the preface acknowledgment to over 100 contributors, among whom appear the names of seven Fellows of the Pharmaceutical Society. The presentation is clear and concise, but it remains to be seen whether the binding is entirely adequate. Of the 110,000 entries, over 4,500 are devoted to persons who have given their names to medical science. Medical terms generally regarded as obsolete have been omitted, and every effort has been made

to include new terms and therapeutic agents. The latter are presented in expanded form in a thirteen-page appendix of pharmaceutical specialities, admirably compiled by A. R. G. Chamings, B.Pharm., F.P.S. (a member of Council, Pharmaceutical Society). Alongside each entry of a proprietary item are placed the approved or accepted chemical names of its constituents, plus a classification of the product's therapeutic action or indications for its use. Other appendices are taken up with a table relating different systems of anatomical nomenclature and a useful set of scientific and mathematical tables. The decision to publish annual supplements (the first one free) to the *Dictionary* is a wise one in view both of the current trend towards international terminology and of the mammoth task that was required in compiling the complete volume.

Leaper's Law of Advertising

W. J. LEAPER, LL.B. Butterworth & Co., Publishers, Ltd., 88 Kingsway, London, W.C.2. $5\frac{1}{2}$ x $8\frac{3}{4}$ in. Pp. 353. 45s. As stated in the preface of the book, during the eleven years that have elapsed since the publication of the first edition of Leaper's Law of Advertising much new legislation affecting advertising has been placed on the Statute book. Examples are the Merchandise Marks Act, 1953, the Advertisements (Hire Purchase) Act, 1957, The Town and Country Planning (Control of Advertisement Regulations 1960). They are but few of the instruments that have wrought changes. Not only does Leaper deal with statutory control, he has also included in his book references to the voluntary codes and restrictions imposed by various organisations upon its members. The merit of Leaper is that it is readable and may be used by either the student, or practitioners who wish to become thoroughly acquainted with the subject, or the executive who merely wishes to ascertain the answer to a specific point. The book contains an adequate table of cases and statutes, a well prepared index, and the text includes numerous foot-note references.

Health Through Choice

D. S. LEES. *Institute of Economic Affairs*, 66A Eaton Square, London, S.W.1. $8\frac{1}{2}$ x $5\frac{1}{2}$ in. Pp. 62. 7s. 6d. "THE fundamental weaknesses of the National Health Service are the dominance of political decisions, and the absence of built-in forces making for improvement, and the removal of the test of the market." That is the considered opinion of Dr. D. S. Lees (senior lecturer in economics, University College of North Staffordshire)—as quoted in this book, which is the fourteenth in the series of Hobart Papers. The author considers that a monolithic structure financed by taxation is ill-suited to a service in which the personal element is so strong, and on which rapid advances in knowledge require flexibility and freedom to experiment. The most acute danger, in his opinion, is that the present system will prevent the emergence of more effective methods of medical care. He urges that a pricing system "should be reintroduced in the drug market" by requiring patients to pay a percentage of the cost of each prescription, with special provision for costly life-saving drugs and patients with low incomes. Professional fees "should be determined by markets not Ministers" and should be freely settled between doctors (and dentists) [no mention of pharmacists or opticians—EDITOR] and their patients, who might reclaim a part from public funds. Dr. Lees makes the point that the alarm about the Drug Bill is unfounded, but "the absence of a pricing system in the National Health Service has driven the Government to increasingly detailed control that imperils professional freedom and threatens the drug industry with nationalisation without public ownership." He finds it difficult to avoid sharing the apprehensions of the pharmaceutical to anufacture of Health's extracts may therefore. turers that the Minister of Health's attacks may threaten the success of their export business. The Minister's use of the Patent Act is described as "a political expedient to secure short-term economies at the risk of damaging long-term prospects for medical research and progress." Dr. Lees has produced a provocative book that should be read by all concerned in the National Health Service. Whilst many will not agree with his diagnosis of the ills of the service, he puts forward another, and cogently expressed, viewpoint.

HYPOCHOLESTEROLAEMIC ACTION

RECENT RESEARCH ON

MODERN COD LIVER OIL

'The reduction or control of fat consumption under medical supervision, with reasonable substitution of poly-unsaturated for saturated fats, is recommended as a possible means of preventing atherosclerosis and decreasing the risk of heart attacks and strokes. This recommendation is based on the best scientific information available at the present time.' Though little difference was observed between the effects of cod liver and corn oils when 50-60 g. daily were given [being substituted for an equivalent amount of ordinary dietary fat], in doses of 25-30 g. per day [added to an uncontrolled diet] the cod liver oil reduced the plasma-cholesterol levels of the volunteers more than did an equal amount of corn oil.' While there is still uncertainty about the exact relationship between diet and coronary heart disease, the recommendations of the American Heart Association quoted above is unequivocal. The association bases its recommendation upon the best scientific information available at the present time. The consumption of only two tablespoons of cod liver oil a day has now been shown to produce a greater fall in plasma-cholesterol levels than the same amount of corn oil. It may therefore come to be recommended by doctors for the prevention of coronary thrombosis, strokes, and allied conditions.

Taken regularly, pure cod liver oil is an inexpensive and natural means of enriching the diet with poly-unsaturated oil. It is also rich in sunshine vitamins A and D, and is the most concentrated source of energy available. Pure cod liver oil is also a source of a number of other valuable properties, including vitamin E, glyceryl ethers, certain sterols, and iodine. And research in our own laboratories, in hospitals and nutritional centres continues to find still more uses for this modern and valuable product.

1 GENTRAL COMMITTE FOR MEDICAL AND COMMUNITY PROGRAMME OF THE AMERICAN HEART ASSOCIATION (1961). J. AMER. MED. ASS. 175, 389
2 LANCET, 1961, 1, 739

THESE NEW DEVELOPMENTS WILL HELP YOU WHEN MAKING RECOMMENDATIONS TO YOUR CUSTOMERS.

ISSUED BY THE MAKERS OF Seven Seas

AVAILABLE IN BOTTLES AND CAPSULES

THE WORLD'S LARGEST PRODUCERS OF COD LIVER OIL

ODAY the glass industry is highly mechanised. In modern glass works its raw materials are mechanically handled, weighed and mixed; and its furnaces, machines and annealing lehrs are fed automatically and continuously.

The advanced and progressive state of the industry is in large measure due to the research that is being continually carried out by technologists trained by the Department of Glass Technology, University of Sheffield. That department, the only university department in the country entirely devoted to glass technology, owes its origin to the unprepared state of the industry at the outbreak of the 1914-18 war.

In that situation, Dr. W. E. S. Turner, of the University's chemistry department, advised the setting up of a Department of Glass Technology and, as the suggestion received enthusiastic support from prominent glass manufacturers, the department was established, with Dr. Turner as its head (later he was appointed the first Professor of Glass Technology in the world). Under the present occupier of the chair of glass technology (Professor R. W. Douglas) the department provides undergraduate courses and conducts research, preparing students for the degrees of M.Sc. and Ph.D.

The undergraduate courses occupy four sessions, the first devoted to physics, mathematics and chemistry, with an introductory course in glass technology. In the second year students spend a fair proportion of their time in courses on mechanical and electrical engineering, refractories and fuel technology. In the third year their time is spent entirely in the glass department, where they attend courses on instrumentation and control, glass engineering and process work, and fuels and furnaces. After his third year the student may sit for the ordinary degree of Bachelor of Technical Science, or may proceed to a fourth-year course leading to an Honours degree.



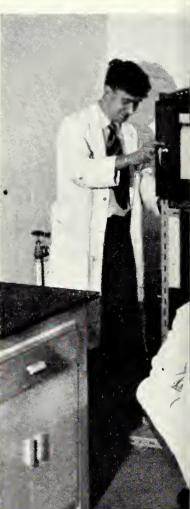
Glass is a chemical, and work in the chemistry laboratory is obvious a fundamental part of the training course.

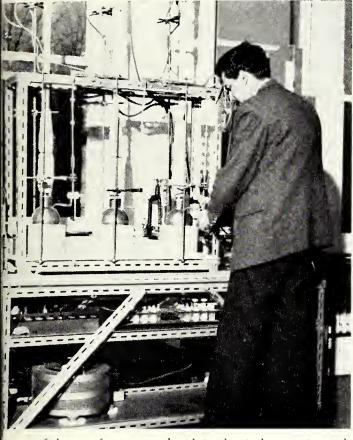
GLASS a

THE DEPARTMENT (

Infra-red transmission is an important property of glass in many of the uses to which it is put. That, too, must be measured.







e user of glass is often concerned with its chemical properties, such its durability, which is here the object of the tests.



Does the sample transmit as much light as it should? A student carries out transmission measurements.

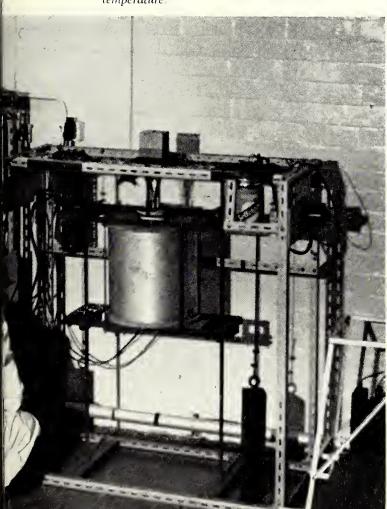
subject of study

ECHNOLOGY, UNIVERSITY OF SHEFFIELD

An assembly of apparatus for determining liquidus temperature

The student has at his disposal an extensive reference library.

Full though it is, the syllabus must provide opportunity, and the premises accommodation, for leisure.





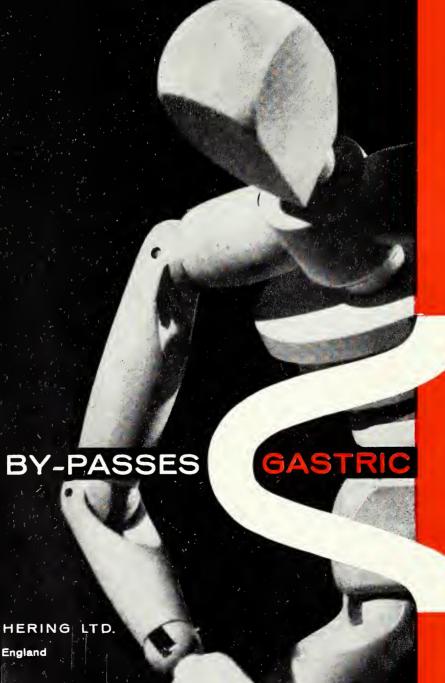


'Palaprin' presents an entirely new approach to salicylate therapy because it is hardly affected by the acid gastric juice—but it is released in the alkaline intestinal medium. This 'by-pass' action of 'Palaprin' dramatically reduces the gastric irritation which so often precludes the prolonged use of aspirin even in the buffered or 'soluble' form. With 'Palaprin' doctors can prescribe aspirin without fear of gastric irritation even at maximum dosages.

FULL SALICYLATE ACTION FOR RHEUMATIC CONDITIONS

PALAPRIN

polyoxoaluminium acetylsalicylate



NEW PRODUCT

INDICATIONS:

Rheumatic condition chronic arthritis, myalgia and all conditions where a effective analgesic and ant inflammatory agent is r quired.

COMPOSITION:

Each tablet contain polyoxoaluminium acety salicylate equivalent to 5 g acetylsalicylic acid.*

PRESENTATION: Containers of 30 tablets

TRADE PRICE: 54/- per dozen (+ P.T.)

IRRITATIO

BRITISH SCHERING LTD.

Slough · Bucks · England

'Palaprin' is a registered trade mark

*Patents pendi



For Retailer, Wholesaler and Manufacturer
ESTABLISHED 1859

Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

Toxicity Hazards from Cosmetics

"The ingredients of cosmetic and toilet preparations, both in the pure state and as formulated, should be subjected to biological testing to ensure, so far as possible, that the use of such preparations would not constitute a hazard to health." That was the first of ten resolutions unanimously carried at a symposium organised by the European Committee on Chronic Toxicity ("Eurotox") at the Chester Beatty Research Institute, London, recently. The participants were from research and health establishments in Britain, Europe and the United States, and included representatives from Thomas Hedley & Co., Ltd., Boots Pure Drug Co., Ltd., Beecham Group, Ltd., and Unilever, Ltd.

The symposium considered chronic toxicity in general, with the exception of sensitivity and allergic reactions (which are to form the basis of a future meeting). It was agreed that the use of cosmetics and toilet preparations could contribute to the protection of health and improvement of well-being of the population, sometimes indirectly; but that the indiscriminate use of certain ingredients could have the opposite effect of endangering public health. Substances that might produce long-term toxic effects could be controlled by establishing "positive" lists of suitable products or "negative" lists of unsuitable ones.

The following classification of ingredients was put forward as a reasonable basis:—

C.—Substances completely acceptable for use in any cosmetics, including those that are ingested (e.g., lipsticks, dental preparations).

C. Ext.—For external use only; not necessarily safe for ingestion.

W.R.—For use in washing and rinsing, or as a solvent or propellant, provided that the material has only transient application; not necessarily safe when ingested or remaining on the skin

It was suggested that substances already in use might be included in provisional positive lists, unless known to be harmful. Complete evaluation should be carried out on them meanwhile, as on new substances. It was considered that standards acceptable for food additives or pharmacopæial preparations could be regarded as acceptable for cosmetic materials, though in some cases less stringent specifications might be adopted.

Further resolutions of the symposium elaborated on specific aspects of control. Measures were advocated which, if put into practice, would limit permissible concentrations of, and impose specified conditions of use and/or labelling regulations on, substances liable

to cause undesirable side-effects. Infants or children in particular should be protected against such products.

Finally it was resolved that the possibility should be explored of establishing more effective human epidemiological studies of chronic toxicity hazards likely to arise in the use of cosmetics. The recommendations will be widely approved.

Drug Share Movements

THE table below gives the high-low London Stock Exchange quotations during 1961 of some of the important public companies in chemical and allied trades. The figures in the third column represent the middle price at the start of business on January 4.

Name of Company	High	Low	LATEST
£1 units unless otherwise stated		1961-62	JAN. 4
	s. d.	s. d.	s. d.
Albright & Wilson, 5s.	29 3	20 3	23 3
Ashe Chemicals, 1s	$\frac{3}{2}$ $\frac{41}{2}$	2 3	2 3
Aspro-Nicholas, 5s	27 9 *	15 3	15 9†
Beecham Group, 5s	52 9	$41 4\frac{1}{2}$	$51 4\frac{1}{2}$
Berk, F. W., 5s	$20 \ 10\frac{1}{2}$	13 0	13 9
Boots Pure Drug, 5s	36 0	24 0	$30 4\frac{1}{2}$
Borax (Holdings), Defd. Ord.,			
5s	22 0	$14\ 10\frac{1}{2}$	17 0
British Drug Houses, 5s	25 6	14 6	15 9
Cussons, Sons & Co., 2s	23 6	13 9	21 6†
Dubarry Perfumery, 1s	2 5	1 4	1 9
Fisons	58 9	$30 7\frac{1}{2}$	37 0
Gee, Arnold M	$3 4\frac{1}{2}*$	2 0	$2 2\frac{1}{4}$
Glaxo Laboratories, 10s	73 9	51 3	55 6
Greeff Chemical Holdings, 5s.	38 0	21 0	22 6
Hampshire, F. W., 5s	45 0	41 3	40 0
Ilford, 5s	28 0	18 9	22 3
Imperial Chemical Industries	81 6	54 6	57 7½
Laporte Industries, 10s	28 7½*	18 0	20 9
Monsanto Chemicals, 5s	$26\ 10\frac{1}{2}$	14 6	17 0
Potter & Clarke, 1s	4 2	1 9	2 3
Reckitt & Colman Holdings	99 9	71 6	80 0
Sangers, 5s Sanitas Trust, 2s	$10 4\frac{1}{2}$	$5 5\frac{1}{4}$	6 0
Sanitas Trust, 2s	24 9	17 6	24 6
Savory & Moore, 5s	46 3	26 0	35 0
Smith & Nephew, 4s	15 6 *	10 9	15 9
Sturge, J. & E., 5s	15 6	9 0	9 9
Taylors (Cash Chemists), Lon-			
don 6% Cum. Pref	17 6	14 7	15 9
Do. (C. C.) Trust 6% Cum.			
Pref	17 7	14 9	15 9
Unilever	55 0	32 6	45 9
United Glass, 5s	22 6	13 9	18 9
Vitamins, 5s	17 0	8 4	8 3
Whites (Timothy) & Taylors,			
5s	27 6	20 0	23 6
Do, $7\frac{1}{2}\%$ Cum. Pref	23 6	19 0	21 0
Willows Francis, 2s. 6d	9 6	5 9	6 9
Willows Francis, 2s. 6d Yardley & Co. "A," 4s	45 3	30 6	43 6
* adusted t ex dividend			

* adjusted † ex dividend

100 YEARS AGO

ELEGANT PRODUCTS FROM U.S.A.

From the C. & D., January 15, 1862

THE intelligence brought by the City of Washington, on Wednesday last, has put an end to the gloomy apprehensions of a war with America. . . . The trade and profession which we represent would, of course, suffer from a war with America, though only indirectly, and in a comparatively small degree. Putting aside, however, all considerations of pecuniary loss, there are still many reasons why pharmacists should be particularly grateful to the Federal Government for having dared to act justly. In America, pharmacy is making great progress, being fostered by several admirable colleges, and advanced by the labours of many first-rate men of science. From America we are continually receiving new and elegant preparations, which are far superior in every respect to those of our Pharmacopæia, which they are intended to supersede. The fine researches of the American pharmacists are noticed in most English scientific journals.

PHARMACY IN FORMOSA

Old-time Remedies and a Challenging Future

By M. CHOU and P. DOYLE

N recent years the island of Formosa, or Taiwan as the Chinese call it, about ninety miles from the coast of Communist China, has figured prominently in world news as seat of the government of the Republic of China. Much has been written about Formosa, but little hitherto about the practice of pharmacy in the island.

Two Streams of Influence

To it two streams have contributed. In 1895 the Japanese won control of Formosa under the provisions of the treaty of Shimonoseki. The Taiwanese attempted to set up an independent government, but the superior military strength of the Japanese prevailed, and Formosa was under the control of the Japanese for fifty years. During the 1939-45 war Japanese planes from Formosa wiped out most of the Far Eastern American Air Force at Clark Field in the Philippines. After the end of the war control of Formosa returned to China, the island becoming a province of the Republic of China until 1949, when the Chinese Communists captured the mainland. As a result the Nationalist Government was formed to take refuge on the island.

During the fifty years of their occupation the Japanese waged a campaign against cholera, malaria, and insanitary conditions, setting up public-health stations and widely practising vaccination against smallpox. After the Japanese defeat in 1944 there was a general relaxing of health standards, and cholera and malaria again increased considerably. Assistance provided by the United Nations Relief and Rehabilitation Administration and later by the World Health Organisation and the United States Economic Cooperation Administration did much to check those untoward developments. With outside financial aid and equipment the Nationalist Government gradually got under way a vigorous programme of health clinics. More modern medical equipment became available, and sanitary precautions

Since the advent of the Chiang Kai-shek government three colleges of medicine, three nursing schools, and a college of pharmacy have been established. medical and pharmaceutical services are available in the larger cities such as Taipei (the capital), Tainan, and Kaohsiung, and modern drugs such as penicillin and streptomycin have been imported from Europe and the United States. A recent issue of the Chinese Pharmaceutical Association's monthly states that in Taipei alone there are about 500 Chinese and over 1,000 Western-style pharmacies. jungle and mountainous areas and the more remote farm sections are less well serviced, but in the small towns there

are numerous stores supplying drugs.

In order to open a pharmacy on Formosa one must apply for and receive the government's official approval and must hold a druggist's or a pharmacist's licence. The pharmacist, like the druggist, sells drugs, but also prepares prescriptions. To qualify for a pharmacist's licence an applicant must have graduated from a college of pharmacy and must have passed the government licensing examination, which is held once a year. To qualify for a druggist's licence an applicant must have graduated from a high school and have had at least three years' experience as an apprentice, in addition to passing a licensing examination. So many pharmacists lost their college diploma credentials through war turmoil and political confusion that the government introduced, on May 15, 1954, a regulation making it possible for an individual to obtain a pharmacist's licence without a diploma or certificate from a college of pharmacy provided he passes the druggist's licensing and the following year the pharmacist's licensing examinations.

There are two types of establishment in Formosa: Chinese drug-stores and Western-type pharmacies (grocers and similar storekeepers are not allowed to sell drugs). The drugs handled are mostly produced in Formosa itself, but the pharmacies also carry drugs imported from Europe, Japan, and the United States, Imported drugs are required to have passed previous clinical examinations by the Medi-

cal Supply Bureau and the Health Department.

The Chinese drug stores handle native or traditional remedies, which may be made up of almost everything from an orange peel to a chamois' horn, from a cockroach to the tongue of a grey fox. The drugs are stored in china jars and teak drawers. They are not packaged or prepared. The raw materials are taken home by the purchaser, they are used, cooked or arranged generally according to the instructions of the practitioner of traditional medicine. Most such "doctors" have had little formal training. They use diagnostic techniques and herbal remedies handed down from father to son, supplementing that knowledge with their own experience. The traditional practitioners are still highly popular, particularly outside the large cities. Many Taiwanese have more faith in primitive medicines and in old-style native "doctors" than in Western drugs and Western-trained physicians.

In addition to the use of herbs, plants, and other primitive medicinals, ancient practices such as acupuncture and moxibustion are not uncommon in Formosa. Acupuncture consists of inserting long silver and gold needles into various parts of the body, and moxibustion is a process of cauterisation by burning wormwood and other herbs. Just how salutary and effective are those ancient remedies and practices? For some time the government has promoted research in Chinese medicine, but because of lack of funds, little has been accomplished until recently. In 1958 the Chinese Drug Research School was established at Kaohsiung, the island's second largest city, and among the drugs investigated has been one on a traditional drug reputed to dissolve gallstones. As time goes on research in that direction will increase, because there are thousands of treatments to be studied to see just how valuable they may be in the light of modern medical knowledge.

The influence of those old-time remedies, and the popularity of the traditional practitioners, will continue for years to come. Both factors confront up-to-date, scientific pharmacy on the island of Formosa with an important challenge and a stimulating future.

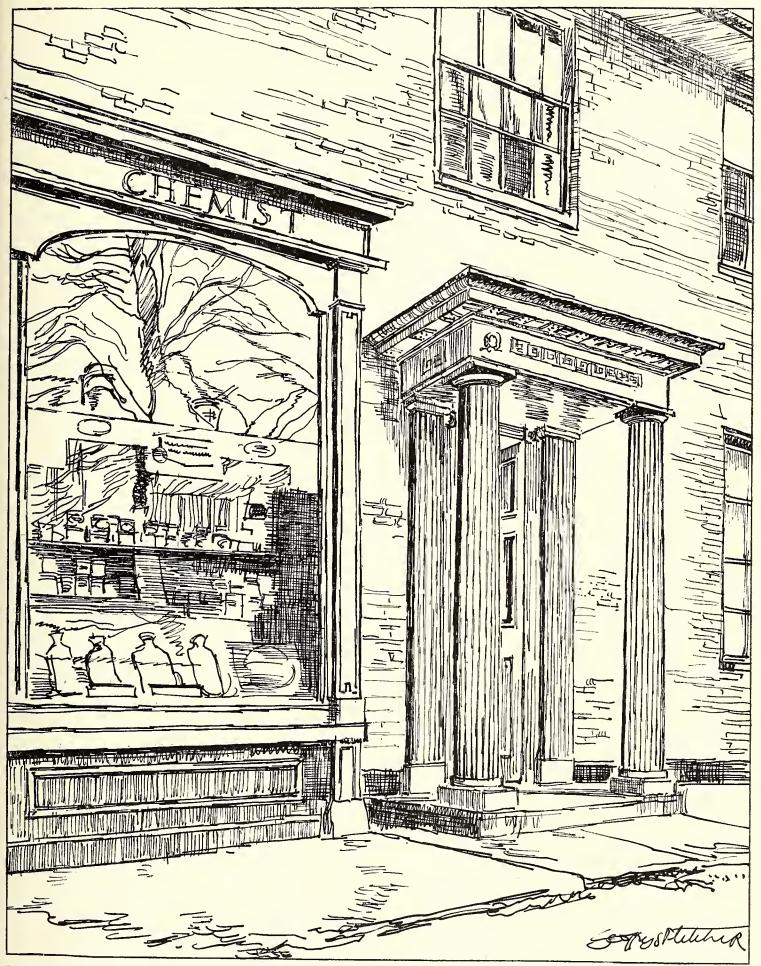
MEDICAL ABSTRACTS

PROPATYLNITRATE IN ACUTE ANGINA

EARLIER evidence of the value of propatylnitrate* in relieving the acute pain of angina is endorsed by recent publication of the results of two further clinical trials (Brit. med. J., 1961. II. 1741, 1745). Sandler reports from Sheffield Cardiovascular Centre that the substance was found more rapid than glyceryl trinitrate in relieving attacks induced by exercise-tolerance tests. Its use is suggested in patients experiencing unpleasant side-effects from glyceryl trinitrate and where resistance has developed to that compound. There was no conclusive evidence of the efficacy of propatylnitrate as a long-acting vasodilator. Having extended their earlier trial at King's College Hospital, London (see C. & D., July 8, 1961), Oram and Sowton state that although the substance appears potent in relieving acute attacks of angina it is of little or no value in prophylaxis. They consider that no drug available can be relied upon to abolish or diminish the frequency of attacks. *Gina (Bayer Products, division of Winthrop Group, Ltd.).

January 13, 1962

PHARMACIES OF BRITAIN



THE PHARMACY OF W. R. GOOCH AT DEDHAM, ESSEX

Dedham, a favourite painting spot for John Constable, has in its main street a notable collection of eighteenth-century houses and a splendid mediæval church. The pharmacy is part of a fine Georgian house close to the church.

ANY BUSINESS QUESTIONS?

I have taken a lease of new premises in a better part of my local High Street, in which I have carried on business for the last fifteen years. I was compelled to leave my old premises owing to a rebuilding scheme that is commencing shortly. As a result of the change I have had to incur considerable expense by way of legal charges and removal expenses. Shall I be able to deduct those expenses in computing my income-tax liability?

LEGAL charges in connection with the renewal of an existing lease are allowed for income-tax purposes, but charges in negotiating an entirely new lease are not allowable. Accordingly it is unlikely that you will be able to deduct that expense in computing your profits. Removal expenses are not strictly allowable, but may be allowed by concession where they are not incurred merely as a result of business expansion. In your case it seems probable that the expenditure will be allowed if the inspector of taxes is advised of the reasons for the move.

I am the major shareholder in a small company formed to develop and market a new pharmaceutical preparation. The work of development took longer than anticipated and several thousand pounds were expended. Eventually, however, we began to manufacture the preparation on quite a large scale, and sold a small quantity to a number of selected individuals for trial purposes. The rest of our production we retained in stock with the intention ultimately of marketing it commercially. Before we reached this stage, however, our activities attracted the notice of a large producer who offered to buy us out. For internal reasons we could not sell him our shares, but we sold all our rights to the manufacturing process, and our entire stock of the finished product. We received a large sum of money for our rights, and the price at which we had intended marketing the product for the stocks. I should have thought that the proceeds of the sale of our rights was a capital receipt but the Inland Revenue claim that it should be taxed together with the sale of the stock. Our accountant tells us that they have cited a case Jeffery v. Rolls Royce, Ltd. in support of their claim, but it seems most unfair, and is now preventing us from winding up the company. What do you advise

THE case of Jeffery v. Rolls Royce, Ltd., was decided by reference to its own particular facts. Your trade was quite obviously concerned with the marketing of your preparation and not with the sale of an industrial process. The case of Evans Medical Supplies, Ltd., v. Moriarty (37. T.C.540) is more in point, and supports your contentions. If your accountant is unable to induce the Revenue to drop their claims you should seek legal advice since it would seem that they should certainly be resisted.

A company debtor of ours has recently gone into voluntary liquidation and we find it cannot possibly pay its debts in full. We had thought that a limited liability company could not go into voluntary liquidation unless it could pay its debts within twelve months after filing the appropriate declaration.

You have in mind a member's voluntary winding-up, and a declaration of the kind you refer to is made and filed with the Registrar of Companies by the directors (or a majority of them). Under a creditor's voluntary winding-up no declaration of solvency is made, and there are separate meetings of members and creditors, each meeting appointing persons to act on a committee of inspection. Every category of winding-up has to follow legal rules and regulations.

I have been asked to become a salaried partner of the firm of which I have been an employee for a number of years. What exactly is my legal position?

You would be registered with the Registrar of Business Names as a partner and your name would figure, of course, as a partner on the firm's correspondence, etc. Whether or not you share in the profits of the partnership, you will be considered in the eyes of persons having dealings with the firm as a partner and, as such, you will have the full personal liability of a partner. Leaving out the question of

partners registered with limited liability (not a usual procedure), it may be stated as a general rule that there would be unlimited liability on the partnership and partners for the act of any one partner in the course of business.

I have just sold my house and bought another, I have always made claims with regard to repairs and maintenance. Will the benefit that has accumulated on those claims be lost to me now? I understand that no claims have been put in by the vendor, but can they be dealt with at this stage and so contribute to the claims I shall be making?

EXPENDITURE incurred by a previous owner may be used in computing relief on the same property only, and provided that he agrees to a disclosure of the details concerned at the request of the new party claiming. In practice, a letter of consent is given to the purchaser who submits it to the inspector of taxes dealing with the property. There is ordinarily no reason why the vendor should not submit his claims retrospectively. That would take in claims up to a limit of six years preceding the current year of assessment and, as the claim is normally based on the average of the five years' expenditure preceding each year of claim, it would be possible to include expenditure (with receipts or other documentary evidence) covering something like eleven years. It has to be borne in mind that a concession usually permits alternative claims to be made on the basis of the actual expenditure of each year until five full years of the claimant's ownership are available. That may be advantageous, but the same basis has to be adhered to for the five years.

Onward from Galen

A CURRENT CAUSERIE

ALL the ingredients of a modern "western," of the kind so often seen on television, seem to be present in the prosaic yet informative story, "Dagga in South Africa," by Dr. John Mitchell Watt (emeritus professor of pharmacology and therapeutics, Witwatersrand University, Johannesburg, South Africa), published in the Bulletin on Narcotics, July-September 1961. In South Africa Cannabis sativa L is known as dagga. It is usually illicitly cultivated by Bantu tribesmen, and during 1955 2,757,965 lb. of dagga was confiscated by the police. Dr. Watt says that illicit "distribution is by motor car, the material being shifted long distances with great celerity. Consignments are often discovered at source in the rural areas." He recalls an episode in which a police constable on horseback in the Wolkberg, near Haenertsburg, was advised that a motor car with covered number plates and driven by an African had passed shortly before. "His suspicions aroused, he obtained the loan of a motor car from a farmer and the chase was on. He soon came upon an African with three maize bags full of cannabis, who stated after arrest that he was waiting for a motorcar to take delivery. The constable continued the chase and came upon the other motor-car. It . . . contained nine bags of dagga weighing 385 lb." A co-worker with Dr. Watt described a woman sender of dagga who worked under the cloak of the Zionist Church, "She wears her blue robes of office when she goes to collect supplies. In addition to selling dagga she sells brandy, her clientèle consisting of girls and boys of fourteen to eighteen years. Her excuse for engaging in the traffic is that she must make a livelihood as she is a widow." Her house is known as "Nkliziyodela," which means "My desires rule over me to your satisfaction." Dr. Watt illustrates his article with the types of pipe used when smoking dagga. In another article in the same issue: "Tranquillising and related drugs: Properties for their identification (Part I)" Ponnusamy Rajeswaran and Paul L. Kirk (School of Criminology, California University) deal with fifty compounds and tabulate the results of standard colour tests obtained by the simple application of ten test reagents.

Early Studies of Drugs and Poisons

LECTURE AND DISCUSSION AT BLOOMSBURY SQUARE

THE Pharmaceutical Society's final evening meeting of 1961—fourth in the current winter series—was organised by the History of Pharmacy Committee and held in London on December 6. The speaker was MR. M. P. EARLES (senior lecturer in pharmaceutics, Chelsea College of Science and Technology), and his subject "The Early Scientific Studies of Drugs and Poisons." Mr. Earles was introduced by the chairman (Professor G. A. H. Buttle).

Seventeenth Century

The greater proportion of simples and preparations in the pharmacopæias of the seventeenth century, said the speaker, were included on little more than the recommendation of their tra-ditional use in medicine. The materia medica was of Græco-Arabic origin, to which basis had been added indigenous remedies from European folk-lore and mediæval medical literature. The number of official, or approved, remedies had increased during the century with the admission of the chemical or "spa-giric" medicines introduced a little earlier by Paracelsus. Specific active chemical salts and plant extracts, they presented the first serious challenge to traditional methods. Many had powerful and rapid effects on the body, in marked contrast to the milder "galenical" remedies. Mr. Earles commented: "The recognition of those chemical substances, bitterly opposed at the time, is now generally regarded as having been a notable advance in therapy.' had, however, the unfortunate effect of adding more substances to a materia medica to which there had "already been too many additions and too few deletions."

The most widely used remedies during that period had been the purgative, emetic and diaphoretic substances which, with phlebotomy, were employed according to the dictates of the "humoural pathology"—a doctrine that had originated in the Hippocratic school and had later been advanced by Galen. It postulated that disease was the result of an excess of one or more of the four humours of the body [blood, yellow bile, black bile and phlegm]. "The object of therapy, therefore, was to evacuate the excess humour to restore the healthy equilibrium. This was accomplished by the letting of blood or the use of evacuant medicines."

The wide application of that theory had brought about a classification of preparations according to their evacuant properties, and the terms vomit, purgative, diuretic, sudorific and so on were in common use. Where a substance was found to be effective in a particular condition without an apparent evacuation it was described as a "specific."

That materia medica had been retained almost unchanged throughout the seventeenth century. "However," continued the speaker, "it was a period when men were reacting against tradi-

tional ideas and authority in all fields of human thought. It was also a period of progress in science, enabling man not only to understand natural phenomena but also to turn them to his advantage, giving him power over nature and adding to his material comfort. Those events had had a great influence on medicine and, though irrational practices and traditional ideas persisted longer in pharmacology than in other branches of medical science, the century saw an increase in criticisms of the materia medica and a loss of confidence in the therapeutic value of many of its constituents."

The growing appreciation of irrational elements in the materia medica had been accompanied by two suggestions for a rational approach to the study of the action of drugs. The first was aimed at improving therapy, and indicated that effective treatments would result from careful observation and verification of results obtained in clinical practice. The second was directed towards understanding the modus operandi of drugs in order to predict their effects after administration.

Ignorance concerning the nature of disease had not only served to support a false reputation for a number of inert substances but also tended to obscure the value of a true medicament. speaker cited the controversy over the use of cinchona bark which, he said, could be attributed partly to the fact that it was difficult to distinguish between malaria, in which it was effective, and those fevers in which it was not. The errors arising from that type of situation were enhanced by others originating in various difficulties in-firm in pharmaceutical practice. This was an age of polypharmacy, in which drugs were rarely administered alone but nearly always with many other substances, some of them active, the majority inert. Dosage was variable and even if, under those conditions, the action of any preparation was correctly noted, it was difficult to decide to which ingredient the effect must be attributed; rare and unusual ingredients such as powdered pearl or viper flesh often received credit due to more humble substances." For those reasons objective studies, "always difficult in the course of clinical practice," were unlikely in the circumstances of the seventeenth century to add much to therapeutic and pharmacodynamics.

Applying the Natural Sciences

Three general attempts at an investigation of drugs and poisons had been made in the latter half of the seventeenth century. The first was based on the belief that the effect of a drug or a poison might be determined by reference to its morphological or sensory characters. Later in the century, Cullen had rejected sensory characters as being of no assistance in the investigation of drugs, and had severely criticised earlier work, believing such investigation to be misleading

because of the difficulties of determining tastes and classifying odours, Mr. Earles continued: "It is interesting to note that, in spite of this, Cullen maintained that only substances having odour or taste could have any activity." The use of sensory characters had been rejected completely by the first half of the nineteenth century. Similarly opposition developed to the use of botanical characters, and was based on obvious exceptions to the rule.

By the chemical doctrine treatment was based on the supposed chemical relationship between diseases and drugs. The basis of therapy, according to the "doctrine of the four humours," had been that the effectiveness of a drug depended upon its possession of qualities opposite to those associated with the disease it was intended to cure. "The iatrochemists substituted for these qualities the chemical properties of, for example, acid and alkali, so that diseases believed to be caused by an excess of acid would be treated by a preparation having alkaline properties." The principle had been carried to extremes but, said the speaker, "it must not be allowed to obscure the more important contributions of the iatrochemical movement, in particular the emphasis on chemical phenomena in physiology."

Attempts to Extract Active Principles

Another important development had been the belief that chemical analysis of vegetable, mineral and animal drugs would lead to knowledge of their modes of action, and would relate activity to particular constituent parts. Numerous attempts were made in the eighteenth century to extract the active principles of drugs and some were associated with experiments to test the action of different fractions. As the century progressed it had become obvious that the activity of a drug or poison must reside in a part of the whole. That had led eventually, in the early part of the nineteenth century, to the isolation of such highly active substances as morphine, emetine, strychnine and quinine.

Before examining the third form of investigation of drugs and poisons—that associated with progress in physiology—Mr. Earles discussed various advances that had taken place in general therapy and pharmacology. The need to reject superstitious and irrational remedies had been given recognition by the compilers of the fourth and fifth editions of the London Pharmacopæia. In the fifth there had been much simplification of formulas and deletion of traditional items. Some had remained, in particular the panaceas Mithridate and Theriaca. "To explain the continued inclusion of such substances the compilers claimed to have submitted to the 'prevalence of custom,' and here we have one of the reasons why clinical practice in general was to be almost as barren a source for an advance in pharmacological knowledge in the

eighteenth century as it had been in the seventeenth. Time was needed to eradicate remedies which were supported by the 'prevalence of custom,' to overcome the intellectual barriers of 'Galenism' and for physicians to learn to apply the new techniques."

First Physiological Approach

Mr. Earles then outlined the first physiological experiments on drug action. The experimental study of medicines and poisons using living animals had been proposed by Francis Bacon in his "New Atlantis" (1627). About that time systematic experiments on animals to demonstrate physiological truths were being made by William Harvey in his work on the circulation of the blood, "In the seventeenth century experiments involving animals were for the most part toxicological and, although many of the substances examined were included in the materia medica, the experiments did little more than demonstrate or confirm their poisonous properties." A notable exception had been the Basle physician John Jacob Wepfer (1620-95)

The eighteenth century had brought many examples of experiments with drugs and poisons on animals—for example, tests carried out with South American curare arrow poisons brought to Europe during the early part of the century. The most extensive series had been made by the Italian scientist Felice Fontana (1730-1805), who had maintained that experiments must be carefully controlled and repeated a great number of times to ensure cer-

tainty of conclusions.

Mr. Earles stated that animal experiments were not, however, at that time readily accepted as a valid contribution to knowledge of human therapy and pharmacology. "This opposition began in the seventeenth century and was based on the argument that it was well known that some plants poisonous to man are apparently harmless to animals." However, in the eighteenth century an English physician, Brown Langrist, had written that he believed that objection to be eclipsed by the obvious fact that "the greatest number of medicines affect both equally. Halfway through the century the question of the validity of animal experi-ments in respect to human beings had been invoked in pure physiology.

It was against such background of controversy that Monro, in 1761, had published his experiments concerning the modes of action of opium, camphor and alcohol. His subjects had been frogs, and he had felt it necessary to refer to doubts that might arise concerning the application in human physiology of conclusions based on experiments made on an animal so different from man. "His argument in favour of his method was simple," continued Mr. Earles. "He simply made the logical distinction between mode of action and degree of action." The effects of medi-cines, he had said, might be quicker and more violent in one species than in another, just as they might differ between men of strong and weak constitutions. "He could not agree, however, that there was any difference be-tween the actual modes of action." In

the same year the physician and chemist William Lewis had cautiously recommended animal experiments to investigate drugs that could not be studied by methods such as botanical affinity, study of sensory characters or chemi-cal analysis. Such substances included the narcotics, emetics and purgatives, which Lewis had said "operate by some latent power, of which they give little or no intimation to the senses.

Fontana, who had pursued that method farther than any other in his time, did not appear to have had any doubts concerning the validity of his results when applied to man, "He observed that the effects on one species were the same as those on another, that the effects were proportional to the dose and that the correct dose was proportional to the size of the animal. He did not doubt that the analogy between the effects of a poison on man and the effects on another warm-blooded animal was perfectly admissible, and he extended this analogy quantitatively to predict the fatal doses of poisons to man. Shortly afterwards, Cullen wrote that he regarded animal experimentation as a proper method for the investigation of new substances. He cautiously observed, however, that different degrees of activity on various species might give rise to different effects, and he therefore recommended that the results should be confirmed on the human body."

Summarising the situation prevailing during the last decade of the eighteenth century, Mr. Earles said that experimentation on healthy animals became recognised by a number of distinguished workers as a legitimate means of discovering the effects of drugs, and indeed the only means of studying poisons objectively. The reports of such experiments, taken together with developments in comparative anatomy and physiology, had supported the view that the results were valid when applied to man. "As yet, however, there was no general body of proof, and physicians were not yet ready to fully explore its possibilities or exploit its potentialities." Mr. Earles concluded: It was, however, from these early beginnings in the seventeenth and eighteenth centuries that the method of experimental pharmacology was raised to the level of an exact science in the nineteenth century by Magendie, Bernard, Schniedenborg and Buchheim, and was finally put to wide and beneficial use in the service of therapy, the results of which have increased with every decade of our own century.'

Discussion

Opening the discussion THE CHAIR-MAN said Mr. Earles had shown how much the present generation owed to certain men of the past, "I wonder," he continued, "if we were without Hippocrates, Louis Pasteur and perhaps Sir Henry Dale, where would we be today in therapeutics?

PROFESSOR H. V. SCHILD considered relevant the view that early physicians had been too interested in curing patients to be good pharmacologists. He asked Mr. Earles why, at a time when physical sciences had "progressed enormously," pharmacology and thera-

peutics were still "in the doldrums." Was it lack of knowledge or lack of method? Mr. Earles replied that in physical sciences each part of a problem could be isolated before investigation. In pharmacology and medicine each problem was a "mass" one. The eighteenth century had brought a period of great medical theories. Physicians' inability at that time to recognise and define accurately the conditions in which certain drugs appeared effective had often led to their discredit by later workers. For example, Withering had observed the precise form of ædema responsive to digitalis, but he was unable to describe it to others. If it had been known that digitalis affected the heart and that heart disease produced characteristic ædema, digitalis would have been used more widely. Mr. Earles added that it was not until advances were made in pathology during the nineteenth century that pharmacology really developed.

Principally a Toxicologist

Dr. P. F. D'Arcy said it seemed that pharmacologist had developed as a toxicologist rather than as a therapeutist, in that he had studied effects of poisons rather than the efficacy of drugs. Knowledge of the latter had not developed until workers were certain of the cause of disease and were able to produce it in experimental animals. MR. EARLES agreed that a primary drawback had been the use of healthy

animals for testing drugs.

DR. L. R. SHARP suggested that undue reverence paid to the theories of such men as Hippocrates and Galen, coupled with certain religious prejudices against dissection, had contributed to the delay in pharmacological progress. Dr. D'Arcy went further, quoting Professor Ritchie Calder's recently published opinion that Galen was a man who "took a drug and wrapped it up so well that it was difficult to find the active principle." Dr. D'Arcy added as an example that Galen had designed a mystic preparation around rhubarb "so that nobody could evaluate it." Only through Paracelsus's systematic study of single chemicals had pharmacy managed to break away from polypharmacy. Mr. EARLES agreed that it had taken a long time to overcome the intellectual barriers of Galenism." Up to the sixteenth century Galen's and Hippocrates' works had been standard textbooks. "These ideas got into medical practice and were passed on by physicians who found the things ap-

peared to work."

DR. T. D. WHITTET took up Mr. Earles's mention of the discoveries of the Arabs, Greeks and Romans. said there was much evidence that the Arabs had obtained a great deal of information from Hindus and possible Persians. Commenting on Mr. Earles' reference to the retention of seemingly outmoded monographs in the London Pharmacopæia, he said that even today weight was carried by the opinion "If it is used, keep it in." Mr. EARLES, in reply, added that compilers of the first French and German pharmacopæias had also supported that opinion by including such "medicaments' as mummy powder and mud tortoises.

Botanists, Chemists and Physicians

AN HISTORICAL REVIEW AT EDINBURGH

DR. D. GUTHRIE (honorary president Scottish Society of the History of Medicine, and vice-president, Royal Society of Edinburgh) addressed the second evening meeting of the current session of the Scottish Department of the Pharmaceutical Society in Edinburgh on December 8. His talk was entitled "Botanists, Chemists and Physicians."

Dr. Guthrie said that, from earliest times, man had depended on plants for food, clothing and medicine. He thought that the application of a leaf to a wound might have been the first application of medicine. "Folk medicine" was empiric and some was still in use today. In America (especially in the West) and in Australia, there was still considerable belief in herbalism and the new nations in the East were falling back on Chinese and Indian medicines. Dr. Guthrie had found in Orkney about two years ago that the buck-bean or craw-shoe was used by many of the crofters and he believed that it was also to be found in the North of England. The buck-bean was chewed in the same way as betel-nut

by Indians and was employed for many

ills. Coltsfoot was also used, either

smoked in a pipe or taken as syrup of coltsfoot

On occasions a valuable remedy had been borrowed from folk medicine. Dr. Withering noted that country folk used foxglove for dropsy, which was then thought to be a disease and not a symptom. Withering had tried it out on his patients (thus introducing digitalis), and he laid down rules for its administration and dosage. Dr. Guthrie recalled that the Indian plant rauwolfia had been used as a sedative in India long before it became the source of reserpine, and that ergot, which was first known as a poison, later became a lifesaving medicine. A plant disease, ergot was not content with killing its host, but, when eaten as a food, caused epidemics of ergotism or St. Anthony's Fire. The present-day value of ergot as a check for hæmorrhage in obstetrics was well known. The introduction of penicillin, he went on, was an example of the device of enlisting the aid of one micro-organism against another, thus saving the host—the patient. That, he said, might be regarded perhaps as the greatest gift by botany to science (bacteriology being regarded as a branch of botany).

Primitive man regarded the patient, body and soul, as one, and so the earliest medical man was the priest who set out to cure maladies with a combination of magic and religion. About 460 B.C. Hippocrates taught that disease was natural and nature was the chief healer. He used few medicines and trusted to diet and regimen though ready to intervene if necessary. Hippocrates insisted on prognosis and on observing the patient in all phases of his condition. About 200 A.D. Galen introduced the doctrine of humours which was to last many centuries. He favoured the use of numerous plants as remedies and today his name survived in the term "galenicals." The old Arab physicians also used many plants and drugs and Arabic words such as "drug," "sugar," "alcohol," etc., were drug,"

added to the language.

At the time of Paracelsus, in the fifteenth century, it was believed that every disease had a remedy latent in nature and the "doctrine of signa-tures" gained many adherents, the clue being thought to be in the plant itself. Dr. Guthrie cited the examples of saffron, which was yellow and was therefore used to treat jaundice; pulmonaria had leaves with markings resembling the lung and should cure lung diseases. Paracelsus simplified prescribing by seeking out the active principle or "quintessence" of each remedy. Dr. Guthrie described him as "one of the great names in medicine."

In 1809 Hahnemann introduced his theory of homeopathy but it was not until a century later that Ehrlich introduced chemotherapy. He tried to kill noxious organisms by using a "magic bullet" and that principle, said the speaker, held good today. When antibiotics came into use the whole idea of medicine changed. Knowing how they acted was "a tremendous advance," said the speaker.

Those changes affected the pharmacist as well as the physician Dr. Guthrie wondered, however, whether synthetic remedies would supply a cure for every ill. The demand for medicinal plants still remained, though many manufacturing houses no longer kept physic gardens. Medical science was becoming more preventive and less remedial, and it was not surprising that chemistry was taking the place of botany.

Dr. Guthrie illustrated his address with lantern slides of historical illustrations which included drawings of the mandrake, the tobacco plant, the barnacle goose and the vegetable lamb. Photographs, and drawings of maps, also illustrated the sites of several physic gardens from that of Linnaeus in Uppsala to the eight which had existed in Edinburgh namely, Surgeons', 1656; Heriot's, 1661; Holyrood, 1670; Trinity, 1676; University, 1695; Physicians', about 1704; Leith Walk, 1767; and Inverleith, 1822.

A vote of thanks was accorded to Dr. Guthrie on the motion of MR. C. G. DRUMMOND, Edinburgh, seconded by Dr. A. Nelson, Edinburgh.

BRANCH AND ASSOCIATION EVENTS

ROMFORD

Visit to the Ballet

A PARTY of thirty members and friends of Romford Branch of the Pharmaceutical Society paid a visit to the Royal Festival Hall on December 28, 1961, to see a performance of Tchai-kovsky's "The Nutcracker" by the Festival Ballet.

Christmas Party

THE eleventh annual Christmas party of the Romford Branch of the Pharmaccutical Society was held at Horn-church, Essex, on December 12, 1961, and gave about eighty members and friends an opportunity for pre-Christmas relaxation. The programme included dancing, competitions, games and a buffet supper.

ENFIELD

A Curate's Egg?

RECENTLY Mr. H. Ridehalgh (a member of the Pharmaceutical Society's Council) addressed members of the Enfield Branch of the Society on the report of the Committee on the General Practice of Pharmacy. He claimed that the report took "a long cold dis-passionate view" of pharmacy today, described what the committee saw and put forward suggestions for a new look pharmacy of tomorrow. Its purpose was to bring about a considerable improvement in professional standards, but was, said Mr. Ridehalgh, "something of a curate's egg ": verbose where it should have been concise, and vague where it should have been explicit. Nevertheless it formed a valuable basis

for branch discussion. Mr. Ridehalgh recollected that in his election address he had stated that matters affecting members should be discussed at branch level before Council reached a decision about them. He was pleased to see that that policy was being followed with the Report. After the meeting had been thrown open to discussion views on several aspects were voted upon. The principle of registration of assistants was approved and the paragraph on responsibility of pharmacy super-intendents accepted. Although members believed that "no advertising at all by chemists" was the ideal, it was recognised that pharmacies with good photographic or cosmetic departments might feel the need to advertise in order to compete successfully with other dealers in those goods. The Branch dealers in those goods. The Branch agreed that the advertising of medicines should be prohibited and restricted titles not used.

ABERDEEN AND N.E. SCOTTISH

Colour Slide Competition

A PHOTOGRAPHIC slide competition was organised and well supported by members of the Aberdeen and North-east Scottish Branch of the Pharmaceutical Society recently. Twenty-three entries each of six slides-were received and the prizes were presented by Mrs. W. C. D. Bain (wife of the Branch chairman). During the course of the evening, Mr. D. Marshall Sloan gave a lecture describing a tour of Switzerland, which he illustrated with his own colour slides. The function raised £30 which has been remitted to the Pharmaceutical Society's Benevolent Fund.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 10: Trade in all sections has shown little sign of recovery since the holidays. After the flood of price changes in Pharmaceutical and Fine Chemicals which became effective at the beginning of the month there were no further alterations announced by manufacturers during the week.

CRUDE DRUGS were largely neglected although there were several firm features. Because of shortness at origin, Spanish SAFFRON advanced a further 15s. per lb. on the spot to 170s., at which price it was still 10s. under the replacement value. Tinnevelly Senna LEAVES were short; the f.a.q. are now cleared. Tragacanth was lower by £5 per cwt. and prime yellow CARNAUBA WAX by 20s. Production of Pyrethrum in Kenya was said to have temporarily out-stripped the capacity of the world market to absorb it. According to an officer of the Pyrethrum Board in Kenya, efforts would have to be made to increase sales of the insecticide if production was not to be cut. Brazilian MENTHOL continued to decline with the in-bond value now quoted at 38s. 6d. per lb. Lower were Curação Aloes (down 40s. per cwt.).; Cascara (down 10s. cwt.); American Lobelia Herb (down 1s. 3d. lb.). Russian Liquorice was again quoted on the spot after a considerable absence from the market. Items which were unobtainable or difficult to locate on the spot included: Podophyllum (Emodi), Copaiba Balsam, Belladonna and Ipecacuanha.

AMONG ESSENTIAL OILS the price of Formosan CITRONELLA was dearer by threepence per lb. in the forward position, while Brazilian Peppermint at 13s. 6d. per lb., c.i.f., was down by a similar amount. Celery seed oil was dearer, reflecting the firm tone of the seeds. Sicilian Lemon and English-distilled Pimento (berry) showed an easier trend.

Pharmaceutical Chemicals

ADRENALINE. — (Per gm.). Synthetic B.P. 1-kilo lots, 11d.; 500 gm., is 1s. 1d. ACID TARTRATE, B.P., 1 kilo, 7½d.; 500 gm. 9d.

Antimony salts.—Chloride sol., B.P.C., 1934, carboys, 2s. $6\frac{1}{2}$ d. lb.

BENZYL BENZOATE. — B.P. in 1-ton lots, 4s. 6d. per lb.

Brucine. — Per oz. alkaloid is 8s. and sulphate, 7s.

Caffeine. — Anhydrous, less than 50-kilo lots, 33s. 6d. per kilo; monohydrate, b.p., 34s.; citrate, 26s. kilo.

Calamine.—Five-cwt. lots, 1s. 10d. per lb.; 1-ton, 1s. $8\frac{1}{2}d$.

Cantharidin.—Per oz. 51s. for 4-oz. lots.

CARMINE.—70s. per lb. for 1-cwt. lots.

Charcoal.—Medicinal activated, B.P.C. in 1-cwt. lots, £22 10s. per cwt.

CHINIOPHON.—B.P. 1948, 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953), 99s. 4d. and 92s. 9d. for the same quantities.

Chlorocresol.—Pharmaceutical quality, 7s. 7d. per lb. (1-cwt. lots).

Chloroform.—1-cwt. lots in winchesters, 3s. $4\frac{1}{2}$ d. per lb.; 56-lb., 3s. 6d. In drums, 3s. 2d. and 3s. $2\frac{1}{2}$ d. per lb., respectively.

Chlorophyll.—Water soluble, 100 per cent., 280s. per lb.; oil soluble, 25s. per lb.

Chloroxylenol.—B.P., 5s. 8d. per lb. for 1-cwt. lots; 5s. 3d. per lb. for 1-ton. Chrysarobin.—Per kilo, 5-kilo lots, 180s. Coumarin.—In under 28-lb. lots, 19s. per lb., under 1-cwt., 18s. 3d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

CREOSOTE.—B.P. quality, ex beechwood, from 6s, 9d, to 7s, 6d, per lb.

DICOPHANE (DDT). — One ton lots, 2s. 2d. per lb.

DIGOXIN.—100-gm. lots, 78s. per gm. DIHYDROXYACETONE. — For contracts of 1,000 kilos, £4 per kilo.

EMETINE. — One-kilo lots. HYDROCHLOR-IDE, 8,642s. per kilo.

ETHER. — Per ib. in winchesters: B.P. TECHNICAL, B.S.S., 5-cwt., 2s. 9d.; (4s. 4d. per litre). In drums the price is 2s. 1d. per lb. Anæsthetic, B.P., 5-cwt., 3s. $11\frac{1}{2}$ d.; 10-cwt., 3s. $7\frac{1}{2}$ d.

GALLIC ACID.—B.P., 10s. 7d. per lb. for 1-cwt. lots. Technical grade, 9s. 9d.

GLYCERIN.—Chemically pure B.P. (s.g. 1.2627):—

	Ove 25 to		5 to and und 25 to	d ler	l to an und 5 to	d er	Under 1 ton			
TANK WAGONS	s, d,		s.	d.	s. d.		s. d			
10-14 tons	186	0		-	_	-	_			
5-10 tons	187	0	189 6		_	-	_			
Drums										
10 cwt.	190	0	192	0	195	0	201	0		
5 cwt.	190	0	192	0	195	0	201	0		
2½ cwt.	192	0	194	6	197	6	203	6		
1 cwt.	194	Θ	196	0	199	0	205	0		
TINS				- 17						
56 lb.	209	0	211	6	216	6	225	0		
28 lb.	215	0	217	0	222	0	230	6		
I4 Ib.	221	0	223	0	228	0	236	6		

Delivery of less than 1 cwt. charged 7s. 6d, extra, Drums charged and returnable. Technical grade glycerin s.g. 1.2627 is 191s. 0d. per cwt. for lots of over 25 tons.

Homatropine. — 16-oz. lots (per oz.): alkaloid, 30s. 6d.; hydrobromide, 24s. 6d.; hydrochloride, 28s. 6d.; methylbromide, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

LACTATES. — CALCIUM, B.P., 2s. 3d. per lb. in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; CALCIUM SODIUM, 4s. 9d. and 4s. 10d. per lb.

Lactic acid. — B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. for 5-cwt. lots. Edible, 80 per cent. acid, 2s. 4d. per lb. for under 1-ton lots: 12 winchesters, 2s. 8d. per lb.

Magnesium Carbonate. — Per cwt. Light, 129s. or 121s. for 1-ton lots; HEAVY, 175s. for 1-cwt. lots; from 130s. to 135s. for 1-ton lots.

Magnesium Chloride. — One-cwt. 1s. 10d. per lb., 5-cwt., 1s. 7d.

Magnesium dihydrogen phosphate. — One-cwt, drums, 4s. per lb.

Magnesium hydroxide.—B.P.C., 1-cwt. lots, 3s. 7d. per lb.; 1-ton, 3s. 2d. per lb. Magnesium oxide, B.P.—Light. 1-cwt. lots, 3s. 2d. per lb.; heavy, 5s. 10d. per lb.

Magnesium peroxide.—B.P.C. (15 per cent.), 3s. 11d. per lb. (1-cwt.).

Magnesium sulphate. — B.P. in minimum 1-ton lots varies between £19 5s. and £25 per ton according to size of crystal and manufacturer. Exsiccated, £54 per ton.

Magnesium trisilicate.—(Per lb.). In. 28-lb. packages:—28-lb., 4s. 9½d.; 1-cwt. 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

Mercury derivatives.—Per kilo, under 50-kilo lots:—Ammoniated mercury, B.P., lump or powder, 53s. 3d.; perchloride, B.P.C. powder, 45s. 6d.; subchloride (calomel), B.P.C., 52s. 3d.; oxides, yellow, B.P., 55s.; red, B.P.C., 1949, 56s. 3d.

B.P., 55s.; red, B.P.C., 1949, 56s. 3d.

PARAFFINS. — Prices to wholesale distributors are: — Liquid: HEAVY, B.P., £107 per ton: LIGHT, B.P., £88 17s. 6d.; Technical White oils, £80 7s. 6d. for the LIGHT and £93 17s. 6d. for the MEDIUM. All in 40-50 gall, returnable loaned drums, delivered U.K. Soft: Best grades WHITE, medium consistency, £116 15s. per ton and soft consistency, £113 7s. 6d. Yellow, £94 10s. Other grades (all B.P.) at £95, £100 10s., £106 per ton for white and at £74 17s. 6d. for yellow. All in non-returnable drums delivered.

PARALDEHYDE. — B.P. in 12-winchester

PARALDEHYDE. — B.P. in 12-winchester lots, 2s. 10d, per lb. (6s. 3d. kilo); 10-gall. carboys, 2s. 4d.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 6d.

PHENAZONE.—Imported, 9s. 6d. per 1b.

PHENOL. — Ice crystals in drums is 1s, 4½d. per lb. (under 1-ton lots, 1s. 7½d.). Detached crystals, 2d. per lb. above and LIQUID, B.P., ¾d. per lb. below the foregoing prices.

PHYSOSTIGMINE. — Per gm.: ALKALOID, 14s. 8d. (5-gm. lots): SALICYLATE, 10s. and SULPHATE, 12s. 7d. (25-gm. lots); NITRATE, 1s. 1½d. (500-gm.).

PIPERAZINE.—(50-kilo lots), ADIPATE, 22s. per kilo; CITRATE, 20s. 6d.; HEXAHYDRATE, 17s.; PHOSPHATE, 23s.; TARTRATE, 22s. 6d.

Pyrogallic Acid. — One-cwt., pure crystals, 24s. 6d. per lb.; resublimed 26s. 6d

SALICYLAMIDE. — One-cwt., 6s. 3d. per lb., 5-cwt., 5s. 11d.

SALOL.—B.P.C., 9s. per lb. (1-cwt. lots). SAL PRUNELLA.—Balls, 3s. 10d. per lb. in 1-cwt. lots.

Santonin.—5-kilo lots, 360s. per kilo.

Talc. — One-ton lots, B.P.C., in kegs, 1s, $2\frac{1}{2}$ d. per lb. ex works.

TANNIC ACID.—The B.P. levis, ex ether, 9s. 3d. per lb.; B.P. powder, 8s. 9d. (1-cwt. lots).

Tartaric acid.—(In kegs): 1-ton lots, 292s. per cwt.; 10–19 cwt., 294s.; 5–9 cwt., 296s.; 1–4 cwt., 298s. Bags 8s. cwt. less. Crystals 7s. per cwt. more than powder and granular.

TEREBENE. — B.P.C., one-carboy lots, 4s. 5d. per lb.

TERPIN HYDRATE.—From 6s. per lb. upwards as to quantity.

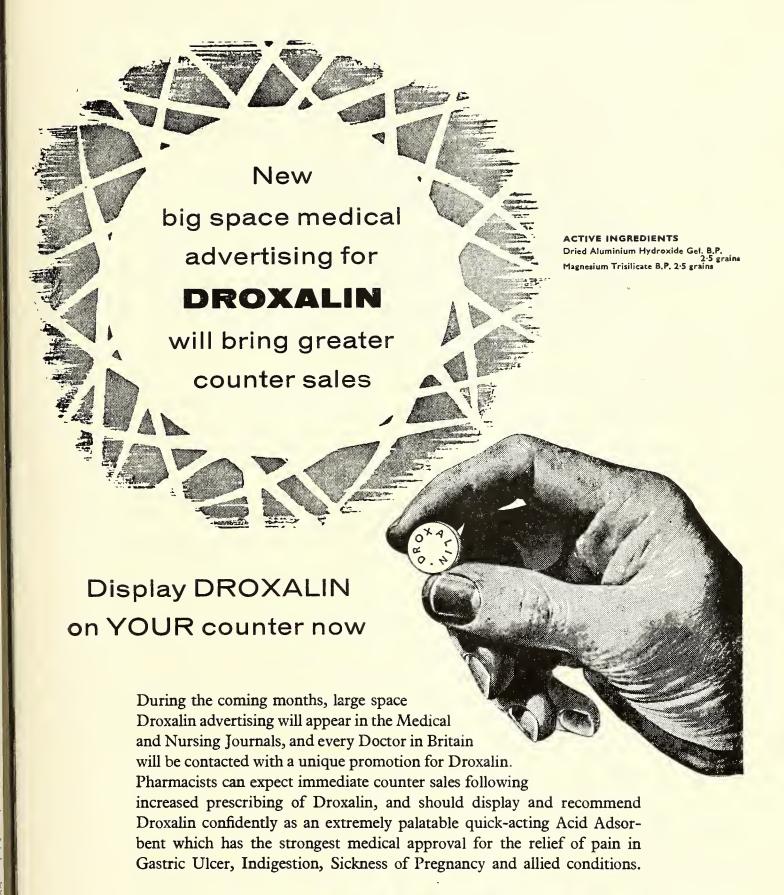
THEOBROMINE. — ALKALOID in 50-kilos, 50s. per kilo;—CALCIUM SALICYLATE (12½-kilos), 49s. per kilo; and—SODIUM SALICYLATE, 46s.

THIOGLYCOLLIC ACID. — Basic rates per lb., 97–98 per cent., 26-lb. packs, 15s.; 75 per cent., 11s. 6d. Ammonium thioglycollate, 40 per cent. ph 9·3 (24-lb. pack), 6s. 8d:; monoethanolamine thioglycollate, ph 9·9, 40 per cent., 9s. 10d. All carriage paid and subject to purchase tax.

THIOUREA.—Technical grade, 1-cwt. lots, 3s. $1\frac{1}{2}$ d. per lb.; 10 cwt., 2s. $9\frac{1}{2}$ d. per lb.

THYMOL. — One-cwt. lots, 14s. 9d. per

UREA.—Pharmaceutical grade, £59 15s. per ton in 1-cwt. bags non-returnable; technical quality, £41 5s. per ton (4-ton lots).



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ACONITE. — Spot: Spanish napellus, 2s. 6d. per lb.

AGAR.—Kobé No. 1, 14s, 4½d. per lb. in bond; shipment, 13s. 9d., c.i.f. Spanish, 14s. 6d., duty paid.

ALOES. — Cape primes, spot, 170s. per cwt.; shipment, 150s., c.i.f. Curação, spot, 410s.; shipment, 385s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 23s. COPAIBA: Spot and shipment nominal, PERU: Spot, 7s. 9d. in bond. Tolu: B.P., from 12s. to 17s. 6d. as to analysis.

BELLADONNA.—Herb, 1s. 9d. per lb. in bond. Leaves, 1s. 10d., nominal. Root, good testing nominal.

BENZOIN. -- Sumatra block, spot £20 to £28 as to quality.

Висни. — Spot new crop, 4s. 6d. per lb.; shipment scarce at 4s. 1½d., c.i.f.

CAPSICUMS, — Chinese, on stalk, 150s., per cwt., duty paid; Ethiopian, 150s.

CARDAMOMS. — Aleppy greens, 10s. per lb., spot; shipment, 8s. 9d., c.i.f.; SEEDS, 17s. 6d. spot and 15s., c.i.f.

Cascara. - Spot, 260s. per cwt.; shipment, 255s., c.i.f.

Cassia. — Fistula, 105s. per cwt.: lignea (whole), for prompt shipment, 335s.,

Chamomile.—Belgian, 6s. 6d. to 7s. 6d. per lb. as to quality; Hungarian type, 6s. 6d.

CHERRY BARK.—Thin natural, 1s. 9d. per lb.; shipment, 1s. $6\frac{1}{2}$ d., c.i.f.

CHILLIES. — Nigerian, 200s. per cwt. Mombasa, 320s.

COCHINEAL.—Black-brilliant, 7s. per lb., spot; Peruvian silver-grey, 4s. 6d.

COLOCYNTH PULP.—Spot, 2s. per lb.

Frangula.—Spot, 87s. 6d. per cwt.

GENTIAN.—Spot, French, 150s. per cwt. GINGER.—(Per cwt.) African, spot, 260s.; shipment, 220s., c.i.f., nominal; Jamaican No. 3, spot, 270s. Cochin, spot, 152s. 6d.; new crop for shipment, 120s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts, 140s. per cwt., spot; January-Februarv shipment, 130s., c.i.f.

HENNA. — Indian, spot, 95s. per cwt.; shipment, 66s., c.i.f.

HONEY. — Australian light amber, 100s. to 105s. per cwt. and medium amber, 85s. to 100s. Argentine, 105s. to 110s. February–March shipments. Jamaican, 115s. to 120s.; Canadian clover, 150s. to 155s., all ex warehouse.

IPECACUANHA. -Nicaraguan for shipment, 70s. per lb., c.i.f.; Costa Rican, 69s., c.i.f. Karaya. — No. 1 gum, spot 300s. per cwt.; No. 2, 235s.

KOLA NUTS.—African, 6d. spot and 4¹/₄d.,

— ANHYDROUS B.P. is from LANOLIN. 140s, to 155s, per cwt. in 1-ton lots.

LEMON PEEL.—Spot, 2s. 3d. per lb.

LIQUORICE. - Natural root: Russian, 67s. 6d. per cwt.; Anatolian, 60s.; Sicilian 1-kilo bundles, 1s. 6d. per lb. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per cwt.

LOBELIA HERB.—American spot, 6s. 9d. per lb.

MACE. — Whole pale blade, 22s. per lb., spot.

MENTHOL.—Chinese: spot, 57s. per lb. duty paid; afloat, 53s., c.i.f.; shipment, 52s. 6d., c.i.f. Brazilian, 38s. 6d. in bond; 34s., c.i.f. Formosan, 44s., in bond; January-February shipment, 37s. 6d., c.i.f. Spanish, 50s. 6d., duty paid.

MERCURY. — About £59 per flask of

NUTMEGS. — West Indian 80's, 9s. 6d. per lb., spot; sound unassorted, 6s. 9d.; defectives, 4s. 6d. Orange Peel. — Spot: Sweet ribbon 1s. 10d. per lb.; bitter quarters: West Indian, 11d.; Spanish, 1s.; bitter ribbon,

PEPPER.—White Sarawak spot 3s. 5d. per lb.; shipment, 3s. 4½d., c.i.f. Black Sarawak spot, 2s. 11½d.; shipment, 2s. 11d., c.i.f. Black Malabar, 400s. per cwt. spot; shipment, new crop quoted at 292s. 6d.,

PEPPERMINT.—Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO.—Spot, 588s. per cwt.; shipment, 540s., f.o.b.

Podopyllum.—Emodi, no offers. Peltatum, 435s. per cwt.

Pyrethrum.—Extract, minimum 25 per ent. w/w pyrethrins, 74s. 6d. per lb. for small lots,

Quillaia.—Small lot quoted at 205s, per cwt. on spot. New crop quotations from origin, January-April shipment, 175s, per

RHUBARB. — Chinese small rounds from 5s. 6d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 170s, per lb. spot; shipment scarce at 180s., c.i.f

SARSAPARILLA. — Jamaican native red spot, 2s. 6d. per lb.; prompt shipment, 2s., c.i.f.

ci.f.

SEEDS. — (Per cwt.). ANISE.—Cyprian, 290s., spot: Egyptian, 225s., in bond. Caraway.—Dutch, 157s. 6d., duty paid. Celery.—Indian, 310s., spot; shipment, old crop, 270s., c.i.f.; new crop for June-July, 180s., c.i.f. Coriander. — Spot, Moroccan, 132s. 6d., duty paid; Indian bold, 95s.; shipment, Moroccan, 102s. 6d., c.i.f., Indian bold, 78s. Cumin.—Iranian, 150s., duty paid; shipment, 125s., c.i.f. DILL. — Indian, 100s. spot., shipment, 77s. 6d., c.i.f. Fennel.—Indian, 105s. spot; shipment, 90s., c.i.f. Fenugreek.—Moroccan, 95s., duty paid; shipment, 81s., c.i.f. Mustard.—English, 65s. to 85s., according to quality. to quality.

SENEGA.—Spot, 16s. per lb.

SENNA. — (Per lb.). Timevelly LEAVES, new crop, spot: Prime No. 1, 2s. 4d.; prime No. 2, 1s. 5d.; No. 3, f.a.q., cleared. Pods: hand-picked, 2s. 6d.; No. 2, 1s. 9d.; manufacturing cleared. Alexandria pods: Manufacturing, 1s. 6d.; hand-picked, 3s. 6d. to 5s.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.; No. 1, 215s.; F.O., 235s. to 285s., spot.

SLIPPERY ELM. - Bark from 2s. 8d. to 3s. 3d. per lb. as to quality.

SQUILL. — White 75s. per cwt. spot, as to quality.

STRAMONIUM.—Indian LEAVES 60s. Dutch 0.5 per cent, alkaloid, cwt, spot. 93s., c.i.f.

STYRAX.—Spot, 23s. 6d. per lb.

Tonquin Beans.—Para spot, 6s. per lb.; shipment, 5s., c.i.f. Angostura, 10s. 6d.

Tragacanth. — No. 1 ribbon, £135 to £137 10s. per cwt. No. 2, £127 10s. to £130.

TURMERIC. — Madras finger, 120s. per cwt.; shipment (old crop), 110s., c.i.f.

Valerian root.—Spot: Belgian, whole for prompt shipment, 145s. per cwt., c.i.f.; Indian, 150s. to 180s., spot. Dutch, 172s. 6d., c.i.f.

Vanillin.—Rates (per lb.) are now:—5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.; 56-lb., 22s.; small quantities, 22s. 6d.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 430s.; shipment, 420s., c.i.f. Abyssinian, 390s. in bond, nominal; shipment, 375s., c.i.f. Sudanese, spot, 420s., nominal, duty paid; shipment, 375s., c.i.f. Candelilla, spot, 465s.; Carnauba, fatty grey, spot, 425s.; shipment, 400s., c.i.f.; prime yellow, spot, 680s. quoted; shipment, 620s., c.i.f.

WITCH HAZEL LEAVES. — New crop, 2s. 11d. per lb., spot.

Essential and Expressed Oils

AMBER.—Rectified on the spot, 1s. 6d. per lb.

BERGAMOT.—Spot, from 72s. 6d. per lb. BIRCH TAR.—Rectified 8s. per lb.

CADE. - Spanish, 2s. 9d. per lb. for drum lots.

CAJUPUT.—Spot from 10s. per lb.

CAMPHOR, WHITE.—Chinese, 1s. 9d. per lb. in bond; 1s. 6d., c.i.f.

Cananga.—Spot, 33s. per lb.

Cassia.—Short with prices nominal,

CEDARWOOD.—American rectified 9s. 6d. per lb. on the spot.

CELERY SEED.—Firm at about 120s. per lb.

CHAMOMILE.—Smalls 640s. per 1b...

CHENOPODIUM.—About 40s, per lb. in original containers.

CINNAMON. — From quillings, best English-distilled is 650s. per lb.; other B.P. oils from 85s. per lb. Ceylon leaf, forward shipment, 11s. 4½d.; Seychelles, 7s., spot.

CITRONELLA. — Ceylon, spot, 6s. 3d.; shipment, 6s. 2d. per lb., c.i.f. Formosan, spot, 9s., in bond; shipment, 8s. 9d., c.i.f.; Chinese, 8s. 6d., c.i.f.; no spot.

CLOVE.—Madagascar leaf, spot, 7s. 9d. per lb., duty paid; shipment, 6s. 8d., c.i.f. RECTIFIED 87–88 per cent., 12s. Distilled bud-oil, English, B.P., 27s. for 1-cwt. lots. COD-LIVER. — B.P. is 11s. 6d. per gall. including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

CORIANDER.—B.P. oil, 52s. 6d. per lb., spot.

CUBEB.—Small spot supplies of imported are 65s. per lb.; English, 90s.

EUCALYPTUS.—Spanish, 3s. 3d. to 3s. 6d. per lb. on spot. Chinese, 3s. 3d., all duty paid.

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid, English, 135s.

LAVANDIN.—Spot from 11s. per lb. for original drums.

LEMON. — Californian cold-pressed from 26s. per lb., spot; Sicilian cold-pressed about 25s. Terpeneless, 400s.

LEMONGRASS. — Spot 23s. 22s. 9d. per lb., c.i.f. Shipment,

PATCHOULI. — Penang is 33s., duty paid and 27s., c.i.f., per lb.

PENNYROYAL. — Spot is 20s. per lb., duty paid.

PEPPERMINT. — Arvensis: Chinese spot, 27s.; shipment, 25s., c.i.f. Brazilian spot, 15s. 3d.; shipment, January-February, 13s. 6d., c.i.f. Piperita: Italian, 48s. per lb., spot nominal; shipment new crop, upwards of 60s. for best oil asked, American from 28s, to 30s, per lb. as to make.

PIMENTO. — English-distilled berry from 135s, per lb.; imported, 32s. 6d. Rectified leaf, 16s. per lb.

sylvestris, 9s., abietis, 15s.

SAGE — Spanish of the sylvestris of the sylvestria o

SAGE.—Spanish 9s. per lb., Dalmatian,

Sandalwood.—Spot, 160s. to 170s. lb.; forward, East Indian, 160s., c.i.f. to 170s. per

VETIVERT. — Bourbon spot, 95s. to 105s. per lb.; shipment, 95s., c.i.f.

UNITED STATES REPORT

New York, January 7: Higher per lb. among ESSENTIAL OILS were Bourbon Geranium at \$15 (up 50 cents) and Celery at \$15.75 (up 75 cents). Lower per lb. were Californian LEMON at \$2.43 (down 80 cents); Floridan ORANGE at 30 cents (3 cents) and East Indian Sandalwood at \$25.75 (75

WORLD TRADE

Import Restrictions Lifted. — The French Government has announced the removal of remaining import restrictions on industrial goods. In addition to the industrial products the new liberalisation list also included fat acids for industrial purposes containing more than 85 per cent, of lauric acid, glycerin and cocoa butter.

Prices of Medicines in Brazil. — An order establishing prices for medicines and pharmaceutical products based on prices in effect on October 31, 1958, has been issued by the Federal Supply and Price Commission (COFAP) in Brazil. Consumer sales prices for the products will be those included in the 1958 price-list, plus taxes and expenses applied to the merchandise and, also, a maximum profit margin of 30 per cent.

Italian Sulphur Industry.—The Common Market Commission has decided to set up a special advisory and liaison committee for the vulnerable Italian sulphur industry. The new committee is expected to co-operate with the Italian authorities in implementing a programme for the rationalisation and modernisation of the industry. The Italian government has now drawn up an aid plan for the industry which has been approved by the Commission on condition that Italian sulphur is not sold below world prices during the one-year isolation period.

United Kingdom/Czechoslovak Trade.
—Agreement has been reached with the representatives of Czechoslovakia on quotas for Anglo-Czechoslovak trade in 1962. The quota lists make provision for Czechoslovak purchases during 1962 of about £7 millions of United Kingdom goods including chemical plant and chemicals. This represents an increase of 24 per cent. over the quotas for 1961 which were published in February 1961. The quota lists also provide for the issue of United Kingdom import licences for Czechoslovak goods up to a total of about £9·4 millions, an increase of 17 per cent. over the 1961 quotas.

United States Sulphur Exports.—Exports of sulphur by United States producers declined somewhat in 1961 from the record level established in the previous year. According to an annual review by a large producer shipments of elemental sulphur abroad amounted to an estimated 1,550,000 long tons compared with 1,775,000 tons exported in 1960. Production of sulphur in the U.S. increased about 8 per cent. and consumption continued at the record level of 6 million tons achieved in 1960. The report adds that output from all sources amounted to an estimated 7,200,000 tons compared with 6,700,000 tons in 1960.

Viet-Nam Tax on Imports.—A recent decree issued by the Viet-Nam authorities set a "perequation" tax of 65 per cent. on the c.i.f. price of "patent" medicines and other finished pharmaceutical products and a 35 per cent. tax on the c.i.f. value of pharmaceutical raw materials. The tax is in addition to customs duties and to production tax, already imposed on pharmaccuticals,

amounting to an effective total of 32.3 per cent, of the c.i.f. Saigon value. Annual imports of pharmaceuticals between 1958 and 1960 totalled about \$12 millions, about 50 per cent, of which was supplied by France and 30 per cent. by the United States. A second

decree reduces profit margins permitted for importers and wholesalers of pharmaceuticals from 25 per cent, to 16 per cent, of the c.i.f. value for wholesale sales and raises the retail mark-up from 20 per cent, to 30 per cent, of the wholesale price.

MISCELLANEOUS INQUIRIES

Removing Ball-point Pen Ink

Can you suggest a method for removing ball-point-pen ink from rubber or plastic dolls?

It is difficult to remove ball-point-pen ink from rubber and plastic dolls but some measure of success may be obtained by using benzyl alcohol and washing finally with soap and water. Much depends on the type of material of which the dolls are made.

An Old Recipe

Can you give me any information about a white ointment pot labelled "Nature's Herbal Ointment'" discovered in the foundations of an old road. The makers were Frederick W. Hale, 61 Chandos Street, Covent Garden, London. Included in the list of "cures" are rheumatism, croup, spinal diseases and epilepsy. WE have not been able to discover when "Nature's Herbal Ointment" was first introduced. According to directories Frederick W. Hale, described as a patentmedicines dealer, was in business at 61 Chandos Street, Covent Garden, from 1884 to 1902. The first reference to F. W. Hale at that address appears in a directory for 1883 when the business was trading as Brown & Hale. In 1902 F. W. Hale moved to 60 Chandos Street, where he remained in business to 1907. From that date until 1912 the business was conducted by Brown Oliver Phelps, Ltd.

Glass Fibre and Skin Irritation

Can you suggest any preparation that could be used to prevent skin irritation in a person working with material made from glass fibre?

GLASS fibre, as you are undoubtedly aware, does produce irritation of the skin to which persons with a sensitive skin are more susceptible. Persons working with glass fibre should take reasonable precautions to ensure that the body (and particularly the arms) is covered with a garment that has a fine weave to prevent easy penetration of the dust. Protection of the face and hands should be by way of a barrier cream. If such creams do not appear to give protection it may be that the material with which the person is working is a glass fibre impregnated with The dust of a resin-impregnated material is more difficult to remove from the skin than ordinary glass fibre, and the irritation may be caused by the particles not being totally removed. Proprietary industrial skin cleansers and barrier creams that are suitable for use by persons working with glass fibre should, however, prevent any irritation.

Removing Hair From Goat Skin

Can you suggest a method to remove the hair from a goat skin that is required for use as a drum head?

THE hair from a pelt comes away readily if, directly after the animal is killed, the pelt is immediately taken off, tightly rolled and kept moist and warm. The fat then

decomposes, the hair follicles are destroyed, and the hair slips. If, however, the pelt is not from a recent killing, then it may be treated in the following manner:-The skin should first be soaked for several days in a solution of lime and water, and the hair removed by shaving with a sharp knife. The skin should then be nailed tightly, flesh side out, to a board, and the fleshy and rough parts removed; that may be done with a closeset spokeshave and steel scraper. The skin should next be sprinkled with chalk and rubbed down with smooth pumice-stone until perfectly smooth, the refuse being washed off; it is then allowed to dry. The skin may be again rubbed down with smooth pumice-stone, after which it should be taken off the board and again nailed on, but with the hair side out, any roughness on that side being also smoothed with pumice-stone. The skin should finally be removed and worked backward and forward over a round piece of wood until it has been rendered supple and smooth.

Complexion Milk

Can you suggest a formula for a complexion milk?

THE following is a basic formula for a complexion milk:—

		Per cent.
Mineral oil	 	 10.0
Cetyl alcohol	 	 0.5
Stearic acid	 	 3.0
Triethanolamine	 	 1.8
Preservative	 	 q.s.
Water	 	 84.7
Perfume	 	 q.s.

Heat the mineral oil, cetyl alcohol and stearic acid until dissolved, and adjust the temperature to 70° C. Dissolve the triethanolamine and the preservative in the water and raise the temperature to 70° C. Add the triethanolamine solution to the first solution with gentle stirring. Continue to stir whilst cooling, and add perfume at 40°-45° C. Continue stirring to 25° C. The product may be homogenised if desired. By adjusting the ratio of oil and water, and the amount of stearate soap formed, or by using mixtures of stearicoleic acids in replacement of the stearic acid, the viscosity of the milk may be varied widely. Such milks tend to thicken on storage, equilibrium being attained most rapidly with the unhomogenised milks.

Complexion milks may also be prepared, in the cold, by the use of diglycol laurate, for example:—

 Diglycol laurate
 14.0

 Liquid paraffin
 40.0

 Water
 46.0

 Preservative
 q.s.

 Perfume
 q.s.

Dissolve the preservative in the water; heat may be required at this stage unless the preservative is readily soluble. Mix the diglycol laurate with the water, fairly rapid agitation is desirable. Add the liquid paraffin with rapid stirring; then add the perfume.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, January 15

ENFIELD CHEMISTS' ASSOCIATION, Enfield Arms hotel, at 7.45 p.m. Dr. C. A. Birch on "Some Products of the Honey Bee."

EXHIBITION OF THE INSTITUTE OF PHYSICS AND THE PHYSICAL SOCIETY, Royal Horticultural Society's New Hall, Westminster, London, S.W.1. (Until January 19)

January 19.)

PESTICIDES GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 3 p.m. Address on "Special Techniques in Residue Analysis."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Lambeth Town Hall, at 8 p.m. Mr. D. F. Lewis (assistant secretary, Pharmaceutical Society) on "Public Relations in Pharmacy."

Tuesday, January 16

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, 1mperial hotel, Birmingham, at 8 p.m. Mr. W. E. Puddle (Boots Pure Drug Co., Ltd.), on "Some Interesting Facts in Horticulture."

BLACKPOOL BRANCH, PHARMACEUTICAL SOCIETY, Imperial hotel, at 7.45 p.m. Address by Sergeant R. Fowlie (Lancashire County Police) on "Safer Motoring."

Burnley Branch, Pharmaceutical Society, Cross Keys hotel, St. James Street, Burnley, at 7.45 p.m. Annual dinner and dance.

COVENTRY AND WARWICKSHIRE BRANCH, PHAR-MACEUTICAL SOCIETY, Craven Arms hotel, at 7.30 p.m. Mr. T. Heseltine (a member of Council) on "Pharmacy Today." HARROGATE BRANCH, PHARMACEUTICAL SOCIETY,

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Blue Bird café, at 7.30 p.m. Members' colour slides evening.

LEICESTER PHARMACY STUDENTS' ASSOCIATION, room 104, College of Technology and Commerce, Leicester, at 7 p.m. Address on "The Work of Consumer Research."

PONTYPRIDD AND RHONDDA VALLEY PHARMACISTS'
ASSOCIATION, Queens hotel, at 7.30 p.m. Dr. C.
Gaulton (Pfizer, Ltd.), on "Diabetes and Oral
Hypoglycacmic Agents."
PRESTON PHARMACISTS' ASSOCIATION, County

Preston Pharmacists' Association, County Club, Winckley Square, at 7.45 p.m. Address by Mr. A. R. G. Chamings (a member of Council).

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Hackwood hotel, Widmore Road, Bromley, at 8 p.m. Mr. P. G. Flood (a member of Council) on "Pharmaceutical Pyrotechnics."

Wednesday, January 17

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, lecture theatre, Science Museum, Exhibition Road, South Kensington, London, S.W.7, at 7 p.m. Ladies' evening. Dr. E. Holmes on "Chemistry in Horticulture and the Garden."

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon hotel, Southampton, at 7.30 p.m. Annual dinner and dance

nual dinner and dance.

WESTERN PHARMACISTS' ASSOCIATION AND WEST LONDON BRANCH, NATIONAL PHARMACEUTICAL UNION, Great Western Royal hotel, Paddington Station, London, W.2, at 7.30 p.m. N.P.U. meeting. Address by Mr. J. Wright (secretary. N.P.U. and Central N.H.S. (Chemist Contractors) Committees).

Thursday, January 18

CHEMICAL SOCIETY, Burlington House, Piccadilly, London, W.1, at 7.30 p.m. Presentation of original papers.

EDINBURGH BRANCHES, CHEMICAL SOCIETY, ROYAL INSTITUTE OF CHEMISTRY and SOCIETY OF CHEMICAL INDUSTRY, Heriot-Watt College, Edinburgh, at 7.30 p.m. Joint meeting. Dr. J. Stafford on "Recent Advances in the Chemistry and Applications of Silicones."

COMMERCIAL TELEVISION

Figures in the columns represent number of appearances of the product during the week.

January 21-27					London	Midland	North	Scotland	Wales	South	Z.E.	Anglia	Ulster	Westward	Border	Grampian	Eireann
Alka Seltzer					1	-	1	_	1	1	_	-	_	_	_	_	1
Anadin	• •	• •	• •		6	4	5	4	3	3	3	_		3	_	4	_
Andrews liver salt Askit powders	• •	• •		• •	_	2	2	3 14	3	3	3	3	3	4	2 7	3	
75 1 3.41	• •	• •	• •		3	2		14	_			_	_	_			_
Bristow's shampoo	• •	• •			1	1	2	1	1	2	2	3	_	2		1	_
Buttercup syrup			• •	• •		_	2	_	_	_	_		_	_		-	_
Cofrex					_	_	_	_	_		6	_		_		_	_
Coldene cold treatment					—	1	_	_	3	-		_		_		—	—
Coldrex					1	2	2	2	2	2	2	2	2	2	4	1	3
Cuticura					2	_	4	_	3	_	_	_	_	_		_	
Deep Heat					5	4	5	2	2	6	4	3	4	2	2	2	2
Delrosa	• •				_	2	2		-	-		-			_		
Delsey	• •	• •	• •	• •	_	_	_	4	_	_	_		_	_	_		
Eno Fruit Salt	• •	• •	• •	• •	2	2	2	2	2	2	2	2	2	2	2	_	
Gon	• •	• •	• •	• •	4	2	2	1	1	1	1	2	3	1	1		_
Horlisks	• •		• •	• •	5	4	5		5	4	5	5	5	2	2	2	
7/1	• •	• •	• •	• •	5	5	5	3	6	6	7	3	4	4	3		_
Lemskin			• •	• •	3			_	_	_			_	-		_	_
Lifeguard					1	1	1	1	1	1	1	1	_	2	2	3	_
Loxene haircream						_	_	_	_	_	_	_	_	_		_	3
shampoo					3	2	2	3	3	3	3	3	2	3	2	3	3
Macleans tooth-paste					2	3	6	2	4	6	2	5	4	3	3	2	_
Milk of Magnesia					1	3	2	2	1	2	2	2	2	1	1	1	-
tablets					_	_	_	1	-	_	1	1	1	1	1	1	_
Panets					1	2	1	_	_				3				_
Penetrol inhalant					1	1	1	_	_	_	1	-	_	_	_	—	_
Pretty Quick	• •		• •	• •	1	2	1	2	3	2	2	1		_			2
Rinstead pastilles Scotties	• •	• •	• •	• •	_	1	1	_	1	1	1	2	2	_	_		_
Silvikrin hair cream	• •	• •	• •	• •	3	3	3	_	3	3	3	3		4	3	_	_
shampoo	• •	• •	• •		1	2	2	4	2	2 2	2	1	3	2	6	_	
Suregrip gloves	• •	• •	• •	• •	_	1	1	-3		1			2	1	2		
Two Step shampoo	• •	• •		• •	_			3	_		_	_					
Virol					2	2	2		_	_	_	_					2
Vosene					_	_	_	_	_	_	_	_		1	_	_	
VO-5 hair spray					5	3	3	1		_	_		_		_	_	
Waft					5	5	5	2	1	1	1	1	_	6	4	5	

CHESTER BRANCH, PHARMACEUTICAL SOCIETY and DEPARTMENT OF EXTRA-MURAL STUDIES, LIVER-POOL UNIVERSITY, Town Hall, Northgate Street, Chester, at 8 p.m. Extension course on "The Development and Use of Modern Drugs." Dr. G. F. Somers on "Tranquillising and Sedative Drugs."

GLASGOW BRANCH, CHEMICAL SOCIETY, Royal College of Science and Technology, Glasgow, at 3.30 p.m. Dr. L. M. Jackson on "Recent Applications of Nuclear Magnetic Resonance in Organic Chemistry."

LIVERPOOL BRANCH, GUILD OF PUBLIC PHARMA-CISTS, Liverpool Royal Children's hospital, Myrtle Street, Liverpool, at 6.30 p.m. Annual meeting.

MANCHESTER PHARMACEUTICAL ASSOCIATION AND MANCHESTER AND SALFORD BRANCH, PHARMACEUTICAL SOCIETY, Manchester University, at 8 p.m. Refresher course. Lecture on "Drugs in the Practice of Geriatrics."

READING BRANCH, CHEMICAL SOCIETY, large chemistry lecture theatre, Reading University, at 8 p.m. Professor D. H. Everett on "Models of Physical Adsorption,"

STIRLING AND CENTRAL SCOTTISH BRANCH, PHAR-MACEUTICAL SOCIETY, Regal café, Stirling, at 7.45 p.m. Mr. J. B. Grossett (a member of Council) on "Pharmacy, Parliament and Public."

THAMES VALLEY BRANCH, PHARMACEUTICAL SO-CIETY, Town Hall, Wimbledon, at 7.45 p.m., Discussion of the report of the Committee on the General Practice of Pharmacy.

YORKSHIRE BRANCH, GUILD OF PUBLIC PHARMA-CISTS, Hospital for Women, Leeds, at 6.15 p.m. Dr. S. Nclson on "British Poisonous Plants,"

Friday, January 19

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Cranborne Rooms, Hatfield, at 8 p.m. Annual buffet dance.

SCOTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 36 York Place, Edinburgh, 1, at 7.45 p.m. Mr. J. Owen Dawson on "Surgical Catgut."

ST. ANDREWS AND DUNDEE BRANCH, CHEMICAL SOCIETY, Chemistry department, St. Salvators College, St. Andrews, at 5.15 p.m. Dr. H. C. S. Wood on "Chemical Studies in relationship to Biosynthesis."

Saturday, January 20

Bath Branch, Pharmaceutical Society, Lansdown Grove hotel, Lansdown Road, Bath, at 8.15 p.m. Dinner and dance.

Advance Information

Californian Gift Show, Los Angeles, California U.S.A January 21-26.

International Gifts Fair, Blackpool, Lancs. February 5-9.

INDUSTRIAL WELFARE SOCIETY CONFERENCE FOR RETAIL EXECUTIVES, Connaught Rooms, Great Queen Street, Kingsway, London, W.C.2. February 7, at 10 a.m.



APPROVING AN ADVERTISEMENT: Messrs. Michael Harding (left) and F. R. Williams (right), sales manager and managing director respectively of Easipower Appliances, Ltd., High Street, Southampton, approve the design of a half-page advertisement to appear in the Daily Express on January 17.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," January 3, 1962

Anti-pernicious anæmia factor of the stomach. E. A. Greenspon. 889,768.

Slowly acting insulin preparation in crystalline form, Nordisk Insulinlaboratorium, 889,769 CTBA, Morphanthridine compounds.

889 660.

N-Monosubstituted-2,2-dialkyl-1,3-propanediol dicarbamates, 889,641.

Steroids and the manufacture thereof. Upjohn Co. 889.779.

2-B-methoxyethylpyridine. manufacture and anthelmintic, Imperial Chemical Industries, Ltd., and Midland Tar Distillers, Ltd. 889,748.

Substituted aminoalkylamides. Monsanto Canada, Ltd. 889,749.

Guanidine derivatives. Monsanto Canada, Ltd.

Hydrazinium compounds, their production and pharmaceutical compositions containing them. W. R. Grace & Co. 889,671.

Process for the production of substituted triazines. Deutsche Gold Und Silber 889,715.

Process for removing sodium chloride from aqueous caustic soda solutions, Farbenfabrik Wolfen Veb. 889,717.

Processes for the extraction of dry aromatic pow-

ders from liquids, A. Faure, 889,759, Cyclization of substituted acetylenes to produce aromatic compounds, K. W. Huebel, 889,993. Yohimbane derivatives. Laboratoires Français de Chimiotherapie, 889,774.

Dyeing composition for hair and other keratinous fibres. Soc. Monsavon-L'Oreal. 889,812.

Production of phosphine. Albright & Wilson (Mfg.), Ltd. 889,639.

Heparin process. Abbott Laboratories, 889,648. Synthesis of steroids. Olin Mathicson Chemical

Corporation, 889,765-66.

Process for hydroxylation of steroids, American Cyanamid Co, 889,853, Bis-dithiocarbamates, Montecatini Societa Generale

per l'Industrie Mineraria e Chimica. 889,675, Fungicidal composition, T. A. Clayton (United States Rubber Co.), 889,706.

British patent specifications are obtainable (price 5s. 0d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," December 28, 1961

For perfumes, toilet preparations (not medicated) and cosmetics (3)

ISLAND BOUQUET, 819,403, by The Right Reverend the Abbot of the Order of the Cistercians of the Strict Observance, Caldey Island, off Tenby, Pembrokes,

For perfumes and aromatic substances for use in the manufacture of perfumes (3)

MUSCABRAC, 822,585, by A. Boake, Roberts & Co., Ltd., London, E.15.

For perfumed soap, perfumes and non-medicated toilet preparations, cosmetics, hair lotions and dentifrices (3)

Device with words EAU DE COLOGNE MAIS OUI BOURJOIS, 823,388, by Bourjois, Ltd., Croydon, Surrey.

For perfumes, toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets

for use in waving the hair, and soaps (3) COSSACK, 823,557, by F. W. Hampshire & Co., Ltd., Derby.

For detergents having germicidal or disinfectant properties, and not being for use in industrial

or manufacturing processes (3)
SANICIDE, 825,243, by Ditchburn Vending Machines, Ltd., Lytham, Lancs.

For stain-removing preparations (3)

SILKOLENE STAINAWAY, 825,249, by Dal-

ton & Co., Ltd., Belper, Derby.
For infants' and invalids' foods made from milk

DEMLAC, 808,609, by Demlac, Ltd., Henllan, Llandyssul, Cardigans,

For pharmaceutical preparations for human use, containing iron; vitamin preparations, dietetic preparations, and tonic preparations (5)

TROPON, 797,548, by Troponwerke Dinklage & Co., Cologne-Mülheim, Germany,

For pharmaceutical preparations in tablet form for the treatment of headaches, pains, colds and influ-

Device with word ASPRO, 809,607, 813,049, by Aspro-Nicholas, Ltd., Slough, Bucks.

For pharmaceutical preparations and substances

for human and veterinary use (5)

PITON, 814,722, by Organon Laboratories, Ltd., London, W.C.2. ANXESTAT, 815,731, by Winthrop Group, Ltd., Surbiton, Surrey.

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RICHTER, 818,100, by Gedeon Richter (Great Britain), Ltd., London, N.W.5.

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THIOCALBY, 821,934, by Bailly, Ltd., Wemblev. Middlesex. For pharmaceutical preparations for use as scleros-

ing agents (5) SCLEROVEN, 821,961, by Leo Laboratories

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For lenses (9)

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For fitted picnic outfits in cases or in receptacle

PICNICMASTER, B786,816, by Brit Vacuum Flask Co., Ltd., London, W.C.1. Britis

CONTEMPORARY **THEMES**

Subjects of contributions in current medical an technical periodicals,

CHEMONANTHINE, a new calycanthaceous alkaloic Proc. chem. Soc., December 1961. Angiotensin 11 in the treatment of shock,

Amer. med. Ass., December 9.

SULPHUR TRIOXIDE. Infra-red estimation of Nature, January 6.

THIN-LAYER CHROMATOGRAPHY, Analysis of choles teryl esters and triglycerides by. Nature, Janu ary 6.

OXYTOCIN. Improved method for quantitative es

timation of. Nature, January 6.
GUANIDINE. In vitro inhibition of infectivity (polio viruses by. Nature, January 6.

ANTIDEPRESSANT DRUGS. Treatment of anxiet states by. *Brit. med. J.*, January 6.

PHENELZINE and DEXAMPHETAMINE in depressive il

ness. Brit. med. J., January 6. STERFERON. Absence of, in lungs, from fate cases of influenza. Brit. med. J., January 6.

TITROGEN MUSTARDS. Current control of the INTERFERON. NITROGEN MUSTARDS, chronic leukemias with. Amer, J. Pharm October.

DISEASES of budgerigars and other cage birds Vet. Rec., January 6.

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Benger Laboratories, Ltd., Holmes Chape Ches: Benger's food. Counter showcard, win dow card and window banner, featurin
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SHAVER DISPLAY STAND: For their electric shavers Morphy-Richards (Cray), Ltd., 50 Conduit Street, London, W.1, have made avail-able a display stand designed to appeal to the younger shaver. The back panel of the stand is topped with a facsimile record cover entitlet "Play it Smooth Man" with the subtitle "Solo for Electric Shaver." The stand, in rigid card, holds either a standard model or a presentation model of the shaver, the features of which are printed on the front panel at the base of the stand. The colour scheme is red, blue black, and white. Height is 13½ in., base 6 x 8½ in. The stand is available from the company's display department.





THE WOMAN WHO WOULDN'T SHOW HER SMILE—

until she used Steradent

She'll be seen on peak time 30-second television spots all over the country—and her story has the kind of human interest that *sells!*

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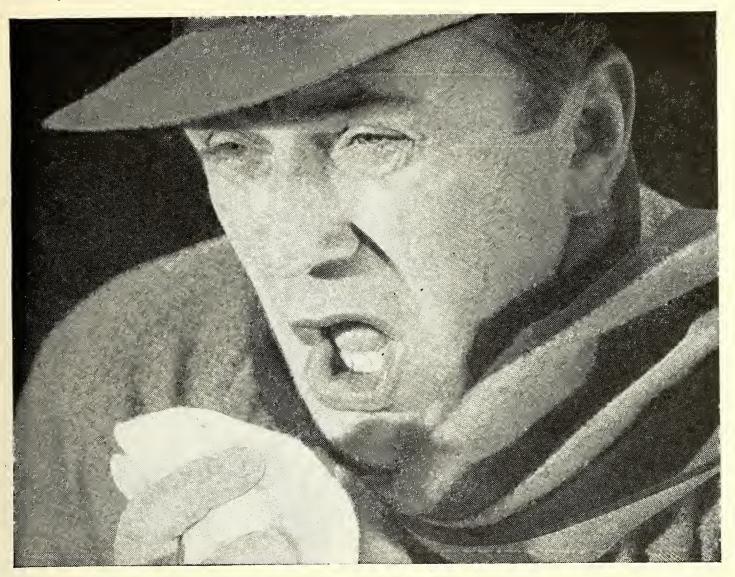


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They're so convenient and easy to use—so handy for travelling. No wonder more and more people are buying Steradent in tablet form. So stock up—and give Steradent Tablets a good reminder position for extra sales!

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3



THIS WINTER REMEMBER

Thorpax syrup

for coughs in adults and children

- Immediately effective and one dose lasts for 3-5 hours.
- Completely safe for patients of all ages and particularly suitable for adults.
- Does not cause sedation, respiratory depression, gastric disturbance or constipation.
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Issued in 3 fl. oz. bottles. Retail price 4/- each. Trade price 32/- per dozen.

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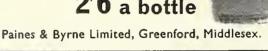
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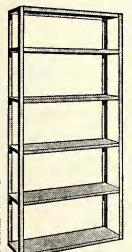
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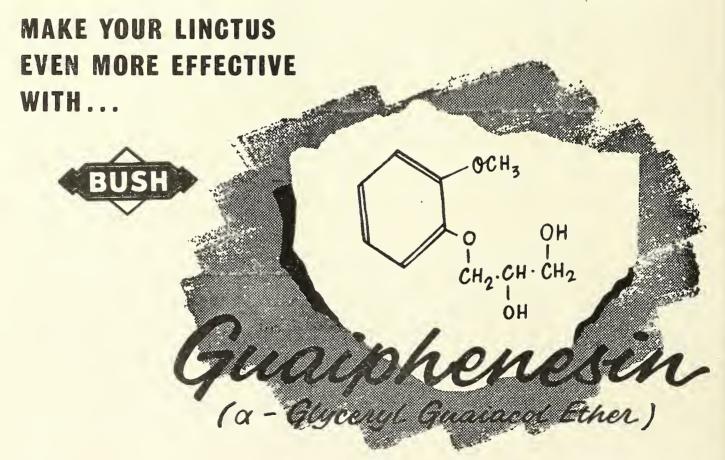
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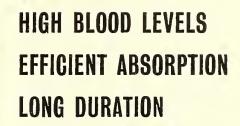
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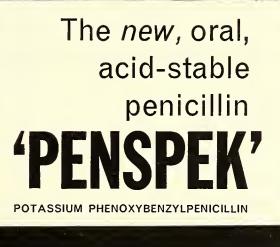
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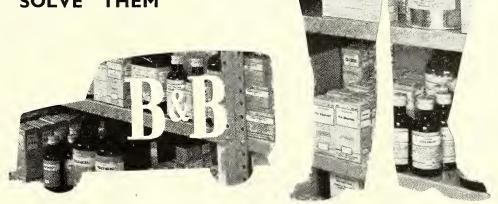
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That's not the record of a 'back shelf'
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and help it to move even faster.

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for sleeplessness, loss of appetite, overstrain, sickness, convalescence and general nourishment.

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UNITS

that bring proved national advertising right into your shop

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> > engers

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The talk that changed her life

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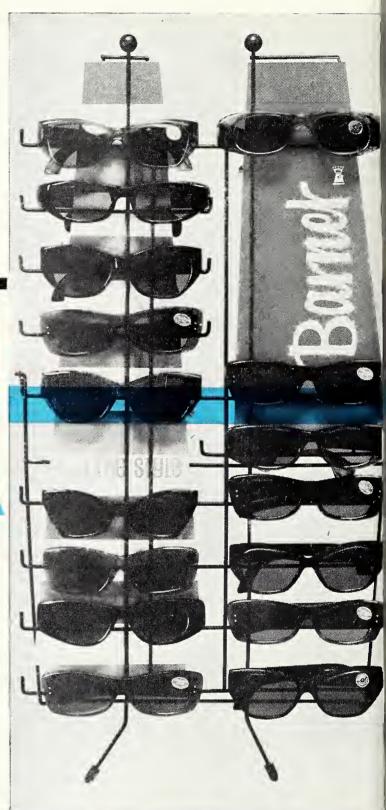
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Happy life

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HANDY REFILL	1/9	10/4	5/8
SACHET REFILL	1/3	5/10	3/2
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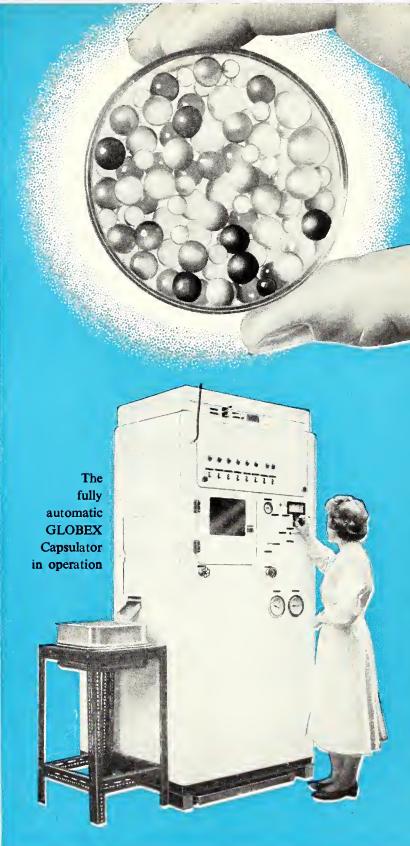
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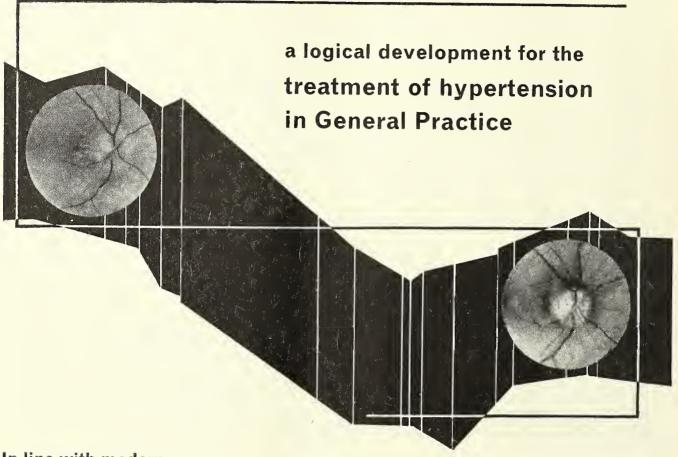
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tablets	List Price	Retail Chemists
25	12/6d.	8/4d.
100	42/0d.	31/4d.
500	230/0d.	153/4d.

® denotes registered trade mark. Reg. user
CIBA Laboratories Limited, Horsham, Sussex.

Here's a best seller for spring and summer

PICNIC WARE MADE FROM A NEW I.C.I. MATERIAL—'PROPATHENE'





This picnic set is just one example of the exciting things to come made from 'Propathene', a new I.C.I. material that's going to be very popular with British housewives.

- * Articles made from 'Propathene' have a brilliant surface which resists scratching and staining.
- * They combine light weight with rigidity and toughness.
- * They are not harmed by boiling water.



Thousands of shoppers will be looking for the 'Propathene' label. It is a sign of the highest quality. Make sure you are displaying goods labelled 'Propathene'.



'Propathene' is the registered trade mark for the polypropylene manufactured by I.C.I.

IMPERIAL CHEMICAL INDUSTRIES LIMITED · LONDON · S.W.1

LOOK AT
THIS SUPPORT!
LARGE SCALE
CONTINUOUS
ADVERTISING
IN
36 WOMEN'S
MAGAZINES
PLUS!
SELECTED
REGIONAL
T.V.
NO WONDER
IT SELLS!

QOSE SCENIEN

"THANKS TO YOU"

1961 SALES WERE PHENOMENAL

IN 1962

SALES PROMISE TO BE

SENSATIONAL!



Each month, during 1961, BU-TO sales climbed—climbed—CLIMBED to new and record levels.

In 1962 we shall be advertising in even greater strength to add a fresh, powerful stimulus to the demand for this first-class product. Make no mistake! The demand will be **BIG**—so order **BIG**—now! And make sure of getting your share of the sales for this lively, lucrative best seller.

Remember there is also

5% EXTRA DISCOUNT

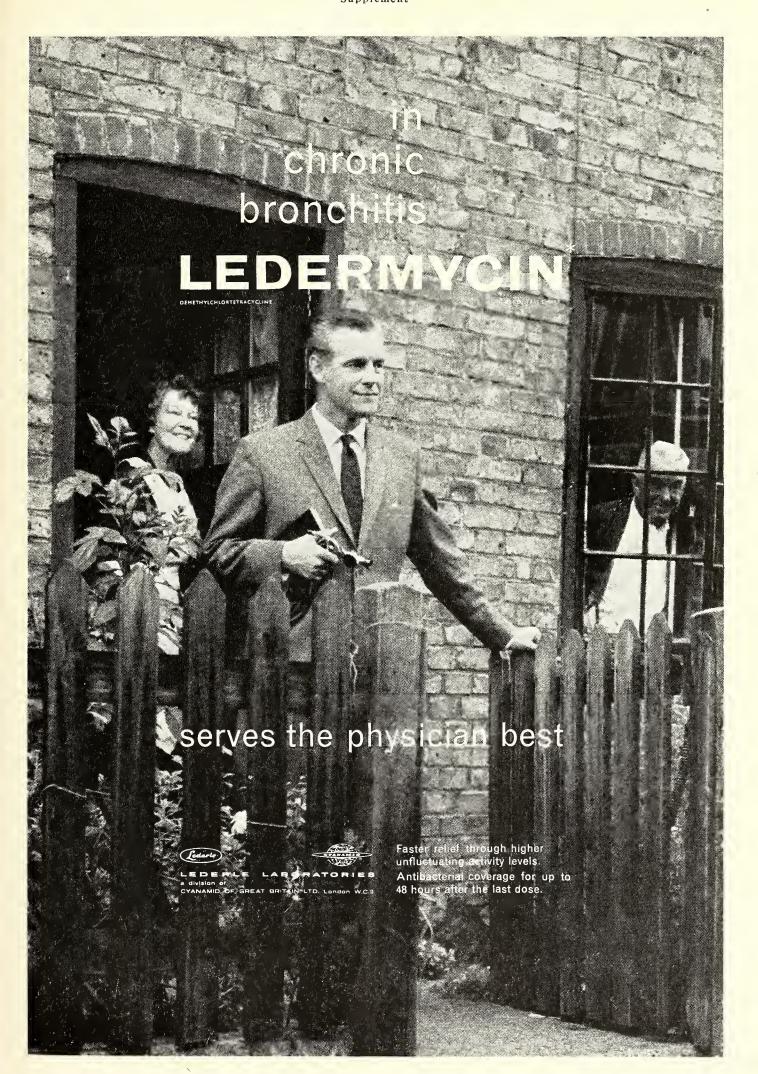
on all direct orders for BU-TO received by us from 15th January to 15th February, inclusive.

YOU KNOW YOU CAN BE SURE OF **BU-TO**

- * Nationally advertised in Women's Magazines and on T.V. in the Southern area.
- * Smart packs and counter dispensers.
- ★ Competitive prices-2/4d. 3/3d. 6/10d.

QUICK - RELIABLE AND REALLY FRAGRANT

BIOMETICA LIMITED, BARNET BY PASS, BOREHAM WOOD, HERTS. ELSTREE 352

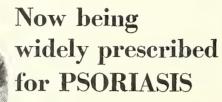


ALPHOSYL LOTION

STAFFORD MILLES

alphosy

LOTION

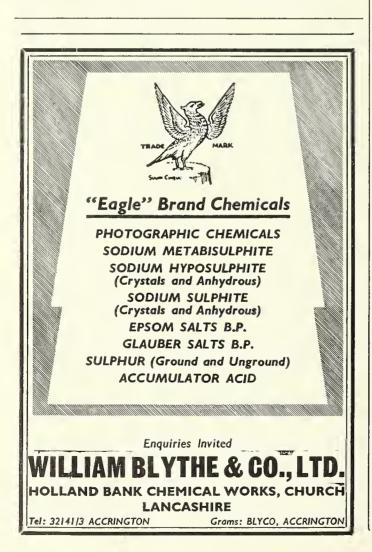


A full scale campaign to the medical profession is now taking place, and never a day goes by without gratifying results of what Alphosyl

is achieving in cases of Psoriasis, Order from your usual wholesaler please.



STAFFORD-MILLER LTD. HERTS HATFIELD



Lucy says:— KIDDIES LOVE

EX-STRAV

(the clever drinking tube)



Flex-Straws. colourful new pack on your counter will be a quick seller.

BENDS TO ANY ANGLE!

It's great fun to drink with 'Flex-Straws on the beach, at picnics, in the garden, at home, in bed . . . relaxed drinking without spilling. Millions of housewives have read editorials about the advantages of 'Flex-Straws' in 'WOMAN' · 'WOMAN'S OWN' 'EVERYWOMAN' 'HOUSEWIFE' 'WOMAN'S MIRROR' · LONDON 'EVENING NEWS' · 'SUNDAY TIMES' 'DAILY TELEGRAPH' DAILY HERALD' and scores of others.

No wonder the demand for 'Flex-Straws' is going up. Order some now.

HYGIENIC DRINKING STRAW CO. LTD.

College Road, Fishponds, Bristol Telephone: Bristol 653268 & 654205 Telegrams: DRINKRITE FISHPONDS BRISTOL Gut

shopfitting

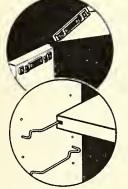
costs with



Remploy



SHELVING



Easy to assemble Strong fully interlocking bars fit neatly into one another, securely holding top, bottom and centre shelf to uprights.

Shelves simple to adjust Special spring clips plug into uprights of Remploy-Lundia Shelves at a inch intervals. The shelves, grooved at both ends, slide along the clips, completely concealing them. Shelf grooves do not show from front view.

NO OUTSIDE LABOUR NEEDED TO ASSEMBLE

Fitting or refitting your shop with Remploy-Lundia prefabricated shelving saves you money. It needs no outside labour to assemble...it costs far less than custom-built installations...and it is remarkably adaptable.

Because of the comprehensive range of sizes, Remploy-Lundia Shelving can fit into any given wall space to within 6 inches. Each shelf is adjustable—can be moved up or down at intervals of $\frac{3}{4}$ inch.

Any combination of widths can be joined together, and extension bays are easily added to existing Remploy-Lundia units.

Made from polished hardwood in natural finish, Remploy-Lundia Shelving is smart looking as well as practical. Remploy-Lundia can cost as little as 70/- per foot by 6ft. high.

Write today for full details of Remploy-Lundia Shelving to:

REMPLOY LIMITED

Remploy House, 415 Edgware Road, London, N.W.2

Telephone: GLAdstone 8020

London Showroom:

22 Bruton Street. W.I. Tel: MAYfair 4881/2

Winter's Here

With winter, fear of colds. With Besorbon, protection against them. Year after year more and more people are appreciating the effectiveness of this pure, fast acting medicinal snuff as a cold prophylactic.

HELP RESISTANCE Recommend Besorbon, Order Besorbon by the dozen and get a free counter unit. Your customers will thank you for selling them this tobacco-free, medicinal snuff —and you'll thank Besorbon for the extra profit it gives.

Recommend and profit from

BESORBON

REGD, TRADE M.

MEDICINAL SNUFF

THOVALINE

for:-

BEDSORES

BEDSORES can be prevented by applying THOVALINE before the trouble starts but if already in existence will help greatly in healing.

BURNS

BURNS Unique action. THOVALINE is self sterile it eliminates pain and is a rapid healer.

DERMATITIS

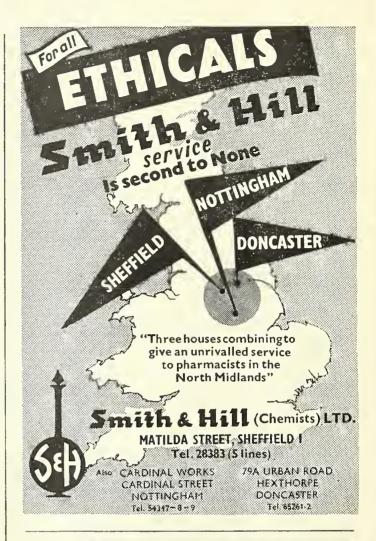
URINE DERMATITIS Excellent healing properties where rash exists and will prevent such trouble occurring if applied beforehand. Offensive odour is eliminated.

Supplies from your usual wholesale house:

ILON LABORATORIES

LORNE STREET · HAMILTON · LANARKSHIRE

Tel: HAMILTON 410









Look at the Advertising that backs your sales for MIMOSEPT!

3 local area campaigns

Beginning January 23rd in selected newspapers covering MANCHESTER EAST ANGLIA and BELFAST regions

2 important National Press announcements

DAILY MIRROR, FEB 13th
SUNDAY PICTORIAL, FEB 25th
and in addition,
the regular whole page
advertisements in WOMAN,
WOMAN'S OWN and FAMILY DOCTOR

FOR FREE SAMPLES

with full information and details of trade terms, fill in this coupon and post in open envelope ($2\frac{1}{2}d$ stamp) to

DALMAS LIMITED
215 Charles Street, Leicester

NAME

ADDRESS



four good reasons why you should stock GONNE

A WELL PROVEN AND POWERFUL FORMULA ENSURES REPEAT SALES

SALES PROMOTED BY ADVERTISING IN THE NATIONAL AND LOCAL PRESS

BRAND LOYALTY ALREADY WELL ESTABLISHED IN

PROFITABLE TRADE TERMS

Write for full details of GONNE and our other products:

G. R. LANE, CHARABS, LTD. Horton Road, Gloucester



THE C.D. (CONCEPTION DAYS) INDICATOR

A Precision
Calculator

Family planning is managed most simply and conveniently by the computation of the mother's fertile and infertile days. Recent research has shown that this can reliably be done by the correct application of the Ogino-Knaus theory.

The C.D. Indicator is now available to ensure its correct application by the least mathematically minded of women.

The C.D. Indicator, designed and manufactured in Switzerland, is a small precision calculator. It can be adjusted simply and immediately to show the fertile period in the current month for each woman, according to her individual menstrual characteristics. It excludes the possibility of mathematical error.

The C.D. Indicator is used and recommended by gynaecological authorities throughout the world. It does not offend against any Church teaching.

Full literature and trade particulars available on request to Dept. M.P.11, CD Indicator Advisory Bureau, 109 New Bond Street, London, W.1.

Granose Rolls



— a delicious aid to slimming

Have you adequate stocks of this quick selling line? Demand for these popular rolls is growing and, on terms of 25% or more, they make a most profitable line.



GRANOSE FOODS LTD. STANBOROUGH PARK, WATFORD HERTFORDSHIRE





COCCION TWO nation LOCK TWO NATION SHAMPOO



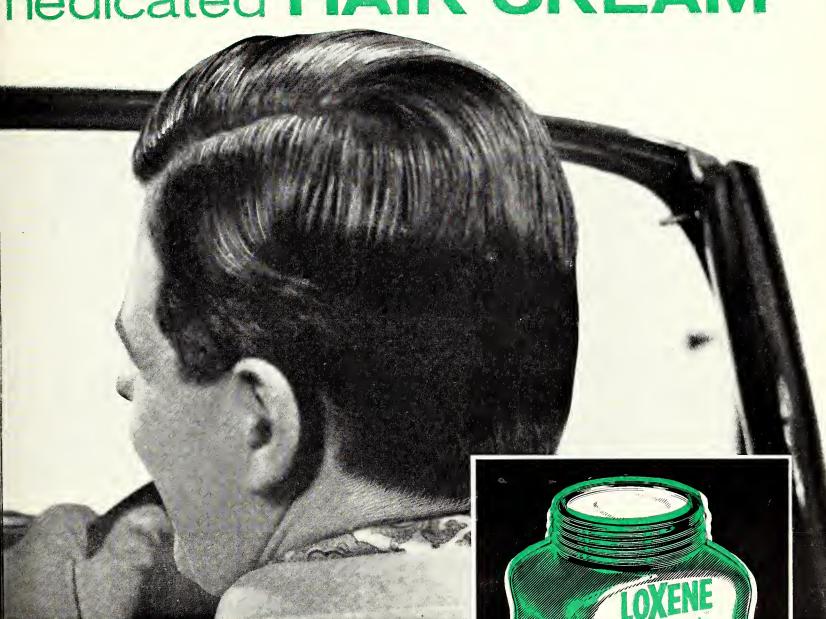
SHAMPOO

shampoo to millions of family viewers.

F. W. HAMPSHIRE & CO. LTD · SUNNYDA

ide T.V. campaigns

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ales drive!

LOXENE MEDICATED HAIR CREAM Here's a powerful T.V. campaign that's 'got everything'! Every viewer will get the Loxene Hair Cream message in compelling 30 second commercials starting in February, with two or three screenings weekly on all stations.



HAIR CREAM

UPTO 10% BONUS ON FLIT AEROSOLS

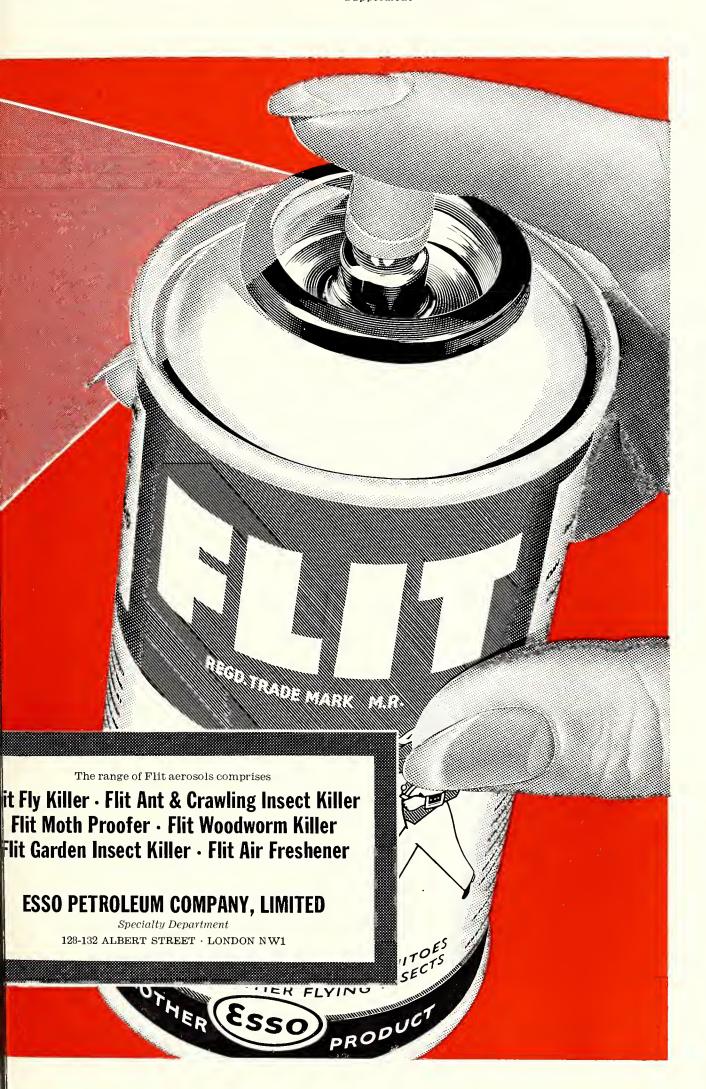
Delivered to you by 30th April

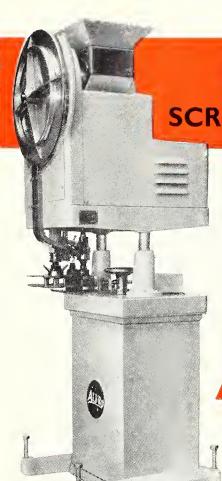
Order your summer stock of Flit aerosols now—for up to an extra 10% bonus over and above your usual Flit profit! Fast-selling Flit aerosols are advertised nationally throughout the whole selling season. Your customers know Flit... trust Flit... buy Flit. To obtain the 'early bird' bonus, your order must be received in time for delivery by 30th April 1962.

FLIT BONUSES FOR 1962

4 dozen assorted aerosols—5% · 9 dozen assorted aerosols— $7\frac{1}{2}\%$ 15 dozen assorted aerosols—10%

SPECIAL BONUSES ON ALL OTHER FLIT LINES, TOO! ASK OUR REPRESENTATIVE FOR DETAILS.





New ALBRO SCREW CAPPER applies 60 per min.

A new ALBRO Screw Capper applies preformed metal or plastic caps to a wide range of bottles, tins and other containers at approximately 60 per minute, depending on the size of bottle and type of cap.

Known as the Single-Chuck Capping Machine, it is fully automatic, completely foolproof and can be incorporated in any existing production line.

A larger model, having an output of 120 per minute, is also available. Ask for full details and a demonstration.

ALBRO Filling Machines For Liquids, Powders & Pastes

Albro Fillers & Engineering Co. Ltd., Wharf Road, Ponders End, Middx. Telephone: Howard 2622 (5 lines) Telegrams: ALBROMACH, ENFIELD

Planning a new product?

Launching a liquid product?

Thinking of strip packed medical samples?

MEDOPHARMA

TABLET · STRIP PACKING AND LIQUID FILLING SPECIALISTS

HAVE THE ANSWER TO YOUR PROBLEM HOME & EXPORT



cut your dispensing time — cut your costs

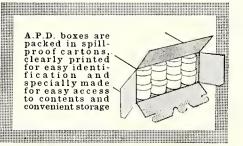


A.P.D ALL PURPOSE DISPENSING BOX

More and more dispensers are recognising the tremendous advantages of using a Robinsons A.P.D. Box. The A.P.D. anticipated the need for a box to cover all dispensing requirements, whether for holding tablets, powders, ointment and cream, thereby reducing the number of stock boxes used to an absolute minimum.

Features of the A.P.D.

- * Non-splay side walls maintain constant fit of box and lid.
- * Made on the principle of the famous "Sealite" ointment box.
- * Incorporates a Polythene and parchment barrier.
- * Unaffected by damp.
- * Clean cut edges to box and lid prevent loose fibres entering contents.



Descriptive leaflet and samples of this remarkable box free on request.

Robinsons of Chesterfield

ROBINSON AND SONS LIMITED WHEAT BRIDGE MILLS CHESTERFIELD

Telegrams: "Boxes" Chesterfield. Telephone: 2105,11 lines

SHOW YOUR

Kirbigrips

in this compact new display

Clearly displays 12 of the ever-popular Handipaks of Kirbigrips—yet takes up only 4^{1}_{4} x 3^{1}_{4} of your counter.



HP4/12-1-Dozen Display Box

Contains 1 dozen Handipaks of 20 plastic-tipped Kirbigrips (black or brown). Packed 3 boxes to each outer. Price: 38/per gross Handipaks, plus 27½% P.T. Retail 6d.

Order now from your wholesaler



Made by GEORGE GOOD VAN LTD, BIRMINGHAM 28



hair beauty PREPARATIONS **SELL ON SIGHT!**

Spraying Hair Lacquer

The finest of hair lacquers with a delightful perfume available in the new Super Spray 3 oz. polythene bottle boxed in 1 doz, units in eye-catching display outers. Refill sachets also available packed in 1 doz, outers retail at 2/3.



Egg and Lemon

CREAM SHAMPOO Retails at 3/9

24 shampoos in plastic injector dispenser—Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Trial—3 shampoos, tubes 9d; 3 individual shampoos linked together 10½d, all packed in display outers.



Scalp Milk Retails at 2/9

An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick drying action holds the hair, removes tangles, leaves hair free from all deposits and with a beautiful lustre.



PRIDE PRODUCTS SELL ON SIGHT!

These Fast-Selling lines are now being advertised continually in National magazines.

From your usual wholesaler or direct-

B. N. FURMAN (PRODUCTIONS) LTD., 133 Fonthill Road, N.4

BIG CAMPAIGN NOW ON-

The signal for success!

Now in full swing—a massive sales campaign for Victory V

> **DAILY EXPRESS** DAILY HERALD T.V. TIMES **NEWS OF THE WORLD** THE PEOPLE and **GLASGOW SUNDAY POST**

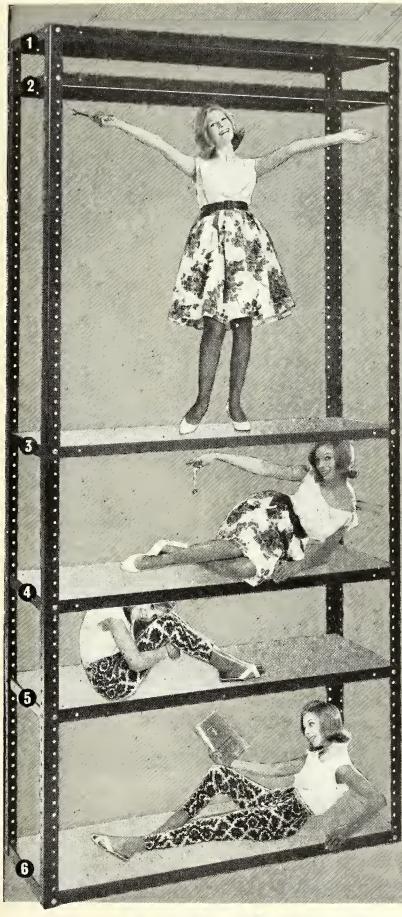
will bring you record sales.



BE PREPARED FOR ACTION!

Order supplies from your wholesaler, or write direct to us for samples and terms

VICTORY FACTORIES · NELSON · LANCASHIRE



72" high 34" wide, 12" deep Stove enamelled dark green

STRONG

Heavy gauge steel
Each shelf will carry 400lb
distributed weight

ADJUSTABLE EVERY IJ CH

Six shelves per bay Extra shelves 8/- each

COMPLETE BAY ONLY

£3-15-0

Delivered Free in England, Scotland and Wales. Satisfaction guaranteed or equipment replaced. Unassembled, ready for erection. Other sizes available.

N. C. BROWN LTD

SHELVING DIVISION

EAGLE STEELWORKS

HEYWOOD

LANGS

Telephone:

Heywood 69018 (6 lines)

NEW YORK

BOTANICALS CHEMICALS GUMS



ESSENTIAL OILS SPICES WAXES

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· BLACK AND WHITE FILMS

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COLOUR FILMS

No deposit with Order

Write for full details

stocks

AND DEFER PAYMENT UNTIL JUNE - JULY AND **AUGUST**



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JOHN KELLYS (LONDON) LTD.

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Telephone: LONdon Wall 6585 (4 lines) Telegrams: "Ergotine, Stock, London' Telex: 28760

4/9d.

(inc. tax)

now available from your wholesaler or direct from

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186 SEVEN SISTERS RD., LONDON, N.7 Tel: ARChway 2674/5.

Sole Distributors for U.K.



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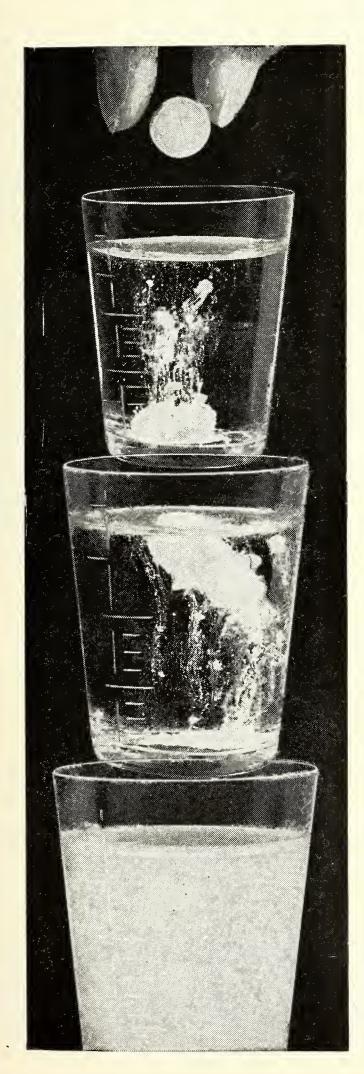
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All qualities

THE BRITISH DYEWOOD

CO. LTD.

GLASGOW



Solprin



NEUTRAL SOLUBLE ASPIRIN



SOLUBLE ASPIRIN, PHENACETIN AND CODEINE



SOLUBLE ASPIRIN, PHENACETIN AND CAFFEINE

Their place to-day

General acceptance won by Solprin, Codis and Cafdis is due to their aspirin content being soluble and substantially neutral. Consequently, all three are quick acting and are far less likely to upset the stomach.

Medical opinion to-day is overwhelmingly in support of soluble aspirin. This is why doctors prescribe Solprin, Codis or Cafdis, and this is why the chemist dispenses them so often.

RECKITT & SONS LTD. PHARMACEUTICAL DEPARTMENT, HULL The M. + P. fleet of delivery vans covers the whole North-East from Tweedside to Wearside, and beyond, with daily deliveries—TWICE DAILY in some areas.

Telephone your orders for prompt attention—day and night service.

The PLUS Service

stockists of for Pharmacists

all leading in the North-East

MAWSON & PROCTOR PHARMACEUTICALS LIMITED

Low Friar Lane, Newcastle-on-Tyne 1

Telephone 29751 (9 lines)

Telephone: CENtral 6565

Address Box Number Replies to: THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2

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KENNINGTON. Near ASHFORD, KENT

New Shop and Maisonette TO LET. Ready for occupation, Shop: front-age 27 ft., depth 23 ft. Specially adapted for use by a chemist. Maisonette: 3 bedrooms, living room, dining area, kitchen, bathroom, etc. Details from sole agents: Drivers, Jonas & Co., Chartered Surveyors, 7 Charles II Street, St. James's Square, London, S.W.1, TRAfalgar C 4319 4744.

APPOINTMENTS

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist for Bethnal Green Hospital, Modern department approved for training students, Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting, Please apply to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

• CITY GENERAL HOSPITAL, SHEFFIELD, 5 (Category V Hospital)

Senior Pharmacist
required, Opportunity to gain or extend experience in Hospital pharmacy at this active
General Hospital, which is also the central
pharmacy of a group of approximately 2,000

beds,
Accommodation may be made available for a
female applicant for which an appropriate
charge will be made, Whitley Council salary
scales and conditions of service.
Apply giving full details of age, experience,
etc., and the names of two persons for reference to the Hospital Secretary.

C 7111

CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL

LONDON, N.W.10

Pharmacist or Assistant-in-Dispensing required. Applications giving full particulars and the names of two referees to the Medical C7113 Director as soon as possible.

HEXHAM AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE, HEXHAM GENERAL HOSPITAL

HEXHAM GENERAL HOSPITAL
(304 beds)

Chief Pharmacist

Applications are invited for the post of Chief Pharmacist (Category III) to Hexham General Hospital, with responsibilities at other hospitals in the Group. The department is modern and well equipped for general pharmacy and sterilisation, Experience with surgical dressings and medical and surgical equipment will be an advantage.
Salary in accordance with Pharmaceutical Whitley Council scales.
Applications stating age, qualifications, ex-

Applications stating age, qualifications, experience, etc., and the names of three referees to the Group Secretary, Hexham General Hospital, Hexham, Northumberland, as soon as possible. Post vacant from 1st March, 1962.

SOUTH OCKENDON HOSPITAL (for mentally sub-normal), Near ROMFORD and GRAYS, ESSEX

ESSEX
Group Pharmacist

Applications are invited from suitably qualified persons for the post of Group Pharmacist (Category II hospital) to be stationed at the above hospital. Inclusive salary range 1945 to £1,250, This is a very modern hospital (1,000 beds) situated in pleasant grounds, close to town amenities in two nearby centres and easy access to London. Applications to the Group Secretary to the Committee, Leytonstone House, High Road, London, E.11, stating full names, address, date of birth, present and past appointments, experience and qualifications 'together with names and addresses of two referees within 10 days of appearance of this notice. C 7119

MAYDAY HOSPITAL (595 Beds) Category IV Pharmacist

for Locum Tenens Duties.

for Locum Tenens Duties.

Applications for Long- or Short-term Locum welcomed, £18 18s, per week, Further information from Chief Pharmacist (THOrnton Heath 6999), Application Form obtainable from: Group Secretary, General Hospital, London Road, Croydon, Surrey.

C7117

MOTHERS' HOSPITAL (SALVATION ARMY), CLAPTON, E.5 (110 beds, Maternity)

Assistant-in-Dispensing (full-time) required for the above hospital. Apply with full details of experience, qualifications, etc., to Group Secretary, Hackney Hospital, London, E.9.

C 579

SPRINGFIELD HOSPITAL, LONDON, S.W.17

Senior Pharmacist

required, permanent appointment. Salary £700—£1,010 per annum plus London Weight-

Applications to Group Secretary, Springfield Hospital, Beechcroft Road, London, S.W.17, giving age, qualifications, details of experience and the names of two referees, C 567

SPRINGFIELD HOSPITAL, LONDON, S.W.17

Assistant-in-Dispensing

Assistant-in-Dispensing required. Salary according to age, £250 at 18, £425 at age 22 or over, rising to £575 plus London Weighting, and a qualification payment of £50 for holders of the Certificate of the Society of Apothecaries or other approved qualification, Higher commencing salary may be payable to experienced applicants. Applications giving full details and names of two referees to the Group Secretary, Springfield Hospital, Beechcroft Road, Upper Tooting, London, S.W.17.

ERNEST J. GEORGE & CO.

329 HIGH HOLBORN, LONDON W.C.1.

Telephone: HOLBORN 7406/7

Professional Valuers to the Pharmaceutical Trade.—Wholesale, Retail and Hospital Stocks. Branches throughout England and Scotland.

Appointments—Continued

ST. LEONARD'S HOSPITAL. **NUTTALL STREET, N.1**

Assistant-in-Dispensing required at the above hospital. Salary scale rising to £605 p.a. Extra pay for appropriate qualifications. Good working conditions, 39-hour week, Applications to hospital secretary.

THE ROYAL EYE HOSPITAL, ST. GEORGE'S CIRCUS, S.E.1

Assistant-in-Dispensing required at the above hospital, writing, to Secretary. Apply, in C 7118

THE ROYAL INFIRMARY OF EDINBURGH AND ASSOCIATED HOSPITALS (1,452 beds)

Applications are invited from suitably qualified candidates, previous hospital experience an asset. Salary scale £690/£920 per annum, with entry according to age and experience (Whitley Council conditions of service). Interested Personnel Officer, Royal Infirmary, Edinburgh, 3, giving the names of 2 employer referees.

THREE COUNTIES HOSPITAL, ARLESEY, BEDFORDSHIRE Assistant-in-Dispensing

Assistant-in-Dispensing
Applications are invited for Assistant-in-Dispensing. Salary and conditions as Whitley
Council scale. £425 at age 22 or over, rising to £575 per annum, Accommodation
available for single man or woman applicant.
Applications, stating age and experience, together with the names and addresses of two
referees, should be sent to The Medical
Superintendent.

C 576 Superintendent.

EDUCATIONAL

LONDON COLLEGE OF PHARMACY AND CHEMISTRY FOR WOMEN

7 Westbourne Park Road, W.2 Established 1892

The only College in S.E. England teaching exclusively for the Assistant-in-Dispensing Examination of the Society of Apothecaries, Enrolling now for six months' full time course for Student Dispensers under 1956 Regu-lations. 82 per cent, Examination successes in 1960.

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DISPENSING AND COUNTER ASSISTANTS. Ladies required for London, E.C.1 and N.1. Highest salary given in exchange for experience and loyalty. Apply in writing to Managing Director, Kendale Chemists, 51 Exmouth Market, London, E.C.1. C 4297

IS THERE A YOUNG PHARMACIST who wants a retail job with a difference? Manager required for shop in Oswestry, Salop, supplying only agricultural and veterinary products. Training will be given if required, but farming knowledge an advantage, as also is Welsh language. Apply, A. E. Moss, M.P.S., 10 Barker Street, Shrewsbury. C7112

KEEN MANAGER required for busy pharmacy. Newly decorated flat available. Excellent supporting staff. Salary £1,250, S. Mansell, Dispensing Chemist, Ltd., 310-312 New Cross Road, London, S.E.14. Tideway 2002. C 4314

PUBLIC APPOINTMENTS

COUNTY BOROUGH OF ST. HELENS HEALTH DEPARTMENT

Appointment of Clerk/Dispenser

Appointment of Clerk/Dispenser
Applications are invited for the post of Clerk/Dispenser in the Health Department Dispensary, St. Helens, at a salary of £645 per annum rising by annual increments to a maximum of £815 per annum. (Applications from suitably qualified females will be considered.) Sessional fees (at £1 5s. 2d. per session) would be payable to a male Clerk/Dispenser who undertakes the duties of Attendant at two evening Special Treatment (Venereal Diseases) Clinics. The duties of the post demand an all-round knowledge of the handling of drugs, and the possession of a Dispenser's qualification would be an advantage. Experience in the keeping of stock and personal records is desirable. A knowledge of the working of a V.D. Clinic would be an advantage in the case of male applicants, but is not essential. Clerical assistance will be provided. The appointment is subject to the provisions of the Local Government Superannuation Acts and the successful candidate will be required to pass a medical examination. Housing accommodation will be made available according to the circumstances of the successful applicant.

Applications, accompanied by copies

plicant.

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G. O'BRIEN, Medical Officer of Health,

Town Hall, ST. HELENS. 28th December, 1961.

C 4310

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C7120

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C 7115

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C 709

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C 7121

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C 7053

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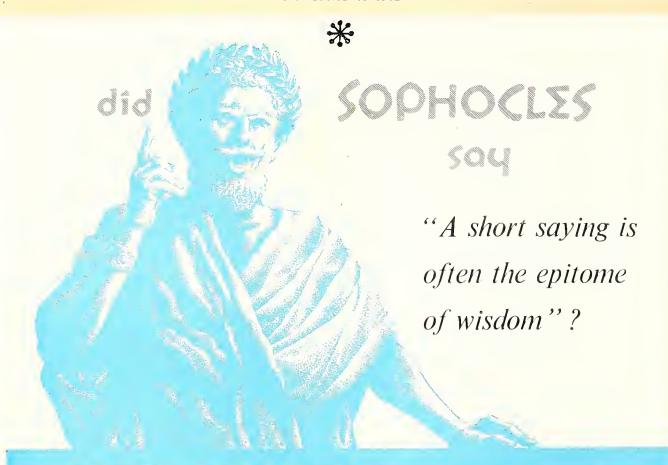
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